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UPDATED POSITION AND ICE VELOCITY FOR THE ARCTIC ICE DYNAMICS J--ETC(U)

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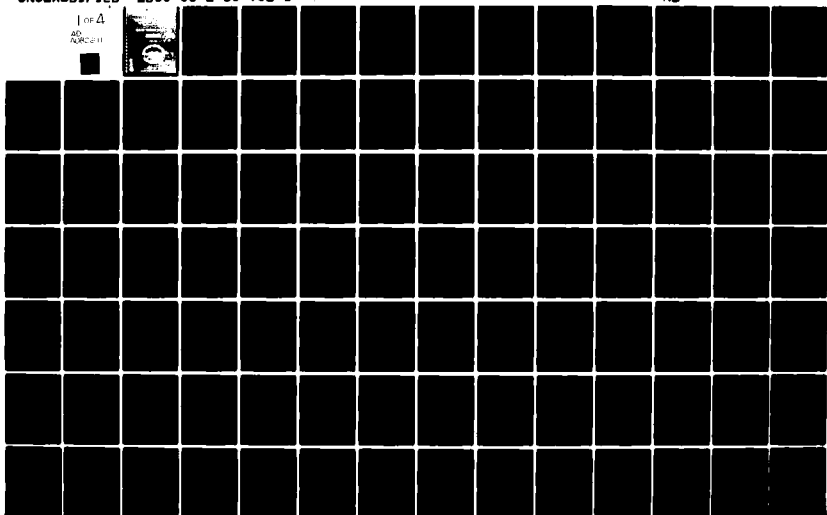
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Arctic Ice Operations Joint Experiment

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UPDATED POSITION AND ICE VELOCITY  
FOR THE (AIDJEX) MANNED CAMPS

Volume 1.

1. *Interim rpt.* 11 Apr ~~1975~~ to 17 Oct ~~1975~~, 1975

prepared by

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(14) LDGO-CU-2-80, ~~VEL-1, TR-2~~  
Technical Report No. 2  
Department of the Navy  
Office of Naval Research  
Contract/N00014-76-C-0004

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Feb ~~1975~~ 1980

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ABSTRACT

UPDATED POSITION AND ICE VELOCITY  
FOR THE AIDJEX MANNED CAMPS

A.S. Thorndike and T.O. Manley

During 1975 and 1976, measurements of sea ice motion were made as part of the Arctic Ice Dynamics Joint Experiment (AIDJEX). In an earlier report (Thorndike and Cheung, 1977), energy at the inertial period was attenuated by approximately 50% due to the choice of a low covariance factor,  $Q = 100$ , during Kalman filtering.

For oceanographic investigations, the data set proved to be unacceptable particularly in the summer months when there is a significant amount of energy at the inertial period.

This report is the result of the reprocessing of the original position data taken from the four manned camps (Caribou, Blue Fox, Snowbird and Big Bear) with a covariance factor  $Q \approx 100000$ .

The higher  $Q$  allows data of the inertial period and longer to pass through the filter with less than 1 percent attenuation.

Because of the large amount of information contained in the data set, it was divided into two parts. This report (Volume 1) provides position and ice velocity from 11 April 1975 to 17 October 1975. Volume 2 covers the remainder of the data, 18 October 1975 to 4 May 1976 (Thorndike and Manley, 1980).

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## Introduction

The objective of the Arctic Ice Dynamics Joint Experiment, as set forth in its most general statement, was to reach an understanding of the dynamic and thermodynamic interaction between the ice cover and its environment (Maykut et al., 1972). One component of the experiment was an array of drifting stations at which frequent measurements of the position were made (Figure 1). For the present report those measurements have been edited using Kalman smoothing techniques to give the best estimates of position and velocity. (The raw measurements themselves are not reported here, but are available through the Polar Science Center.) The data set described here is restricted to the main AIDJEX experiment, which began in March 1975 and ended in May 1976.

This data report represents the most complete documentation of ice motion available, but it is limited to one year and to the Beaufort Sea. Parties interested in earlier data, more widely dispersed in space and time, should contact the Polar Science Center, University of Washington, Seattle, Washington, which has compiled most of the ice drift data beginning with the drift of the FRAM in 1893 to the present.

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## CAMP POSITIONS

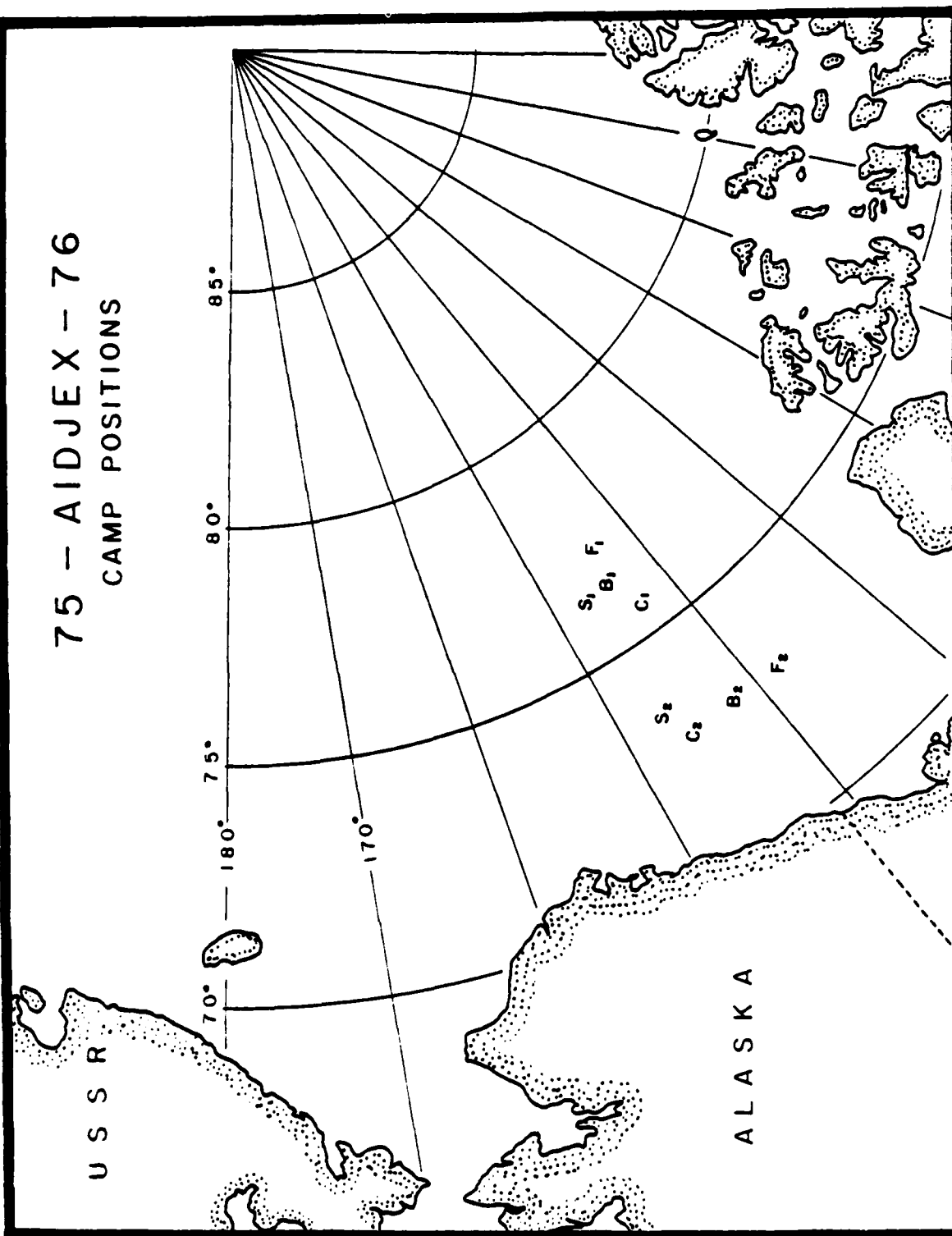


Figure 1 - Beginning and ending positions of the four manned AIDJEX camps Caribou (C), Blue Fox (F), Snowbird (S) and Big Bear (B). Subscripts of 1 indicate the beginning positions. A subscript of 2 indicates the final position of the camp.

### Data Acquisition

A full description of the measurement systems used in this program is beyond the scope of this report. The list of references includes sources of more detailed information (Wasilew and Vivian, 1976; Martin, P., 1978). All of the hardware we used was supplied by the Satellite Positioning Corporation, Houston, Texas.

Four manned camps -- identified by radio call names Big Bear, Caribou, Blue Fox and Snowbird -- were tracked using NavSat (Navy Navigation Satellite System). The geographical position of each of the four camps was measured at unevenly spaced times using Doppler satellite navigation techniques. The raw measurement is the frequency of a signal transmitted from the satellite to the ice station. The measured frequency is affected by a Doppler shift related to the rate of change in distance between the satellite and the ice station, which is itself related to the unknown ice coordinates and the known satellite orbit. During each satellite orbit several frequency measurements were made and from them an overdetermined solution was found for the unknown coordinates. Data recording in the field was on magnetic tape with hard copy printout for backup.

A constellation of six polar orbiting satellites was maintained for this system. The orbital period is about 107 minutes. An observer at high latitudes can track every orbit. Of the 81 potential passes each day, many are unusable (because of radio interference between overlapping passes, for instance). We averaged about 25-30 usable passes per day at each station. Single channel (400 MHz) receivers were used to count the Doppler cycles

for roughly 30-second intervals. The duration of each Doppler counting interval was measured independently. The frequency standard used in the receivers was stable during a 20-minute pass to about 1 part in  $10^{11}$ .

Fix solutions were done in real time at each manned camp. The solution used only the Doppler data from the 5 minutes on either side of the time of closest approach of the satellite. No additional editing was performed. A correction to each Doppler count was based on the duration of the counting interval to account for the random variations in the counting interval. The correction also included the fixed timing delay in each receiver. The fix solution ignored the effect of the velocity of the ice camps.

In fact, two receivers with antennas separated by about 100 meters were operated at each manned camp. In addition to serving as a backup, the measurements at the second antenna were used to define the azimuth of the line joining the two antennas. This was possible when both receivers produced acceptable fixes from the same satellite pass. Estimates of the azimuths obtained at each of the manned camps were reported by Thorndike and Cheung, 1977.

### Preprocessing

The original data tapes from the manned stations measurement systems typically contained several "glitches" per tape because of power failures at the camp, or operator error, or some other reason. These tapes were transcribed discarding those records which had either a parity error or an incorrect number of words. The tapes which resulted from this process were read without error on the CDC 6400 at the University of Washington, where the bulk of the processing was done.

Three problems had to be dealt with to prepare the sequence of measurements at each station for the actual Kalman filtering. First, data recording problems had created occasional gaps in the manned camp data. At times the backup teleprinter records from the field could be used to fill these gaps. This was done by keypunching the fixes directly from the printed records. Second, the data sequence had occasional points which appeared to be out of sequence in time. This was sometimes correctable, as when the operator had keyed in the wrong date, but usually the situation was ambiguous and points out of chronological order were dropped. The third and most serious problem involved bad fixes. A glance at a plot of the raw time series (Figure 2) illustrates the problem. Because outlying fixes have a deleterious effect on the Kalman filtering results, an attempt was made to remove them during preprocessing. The algorithm employed compares each fix in latitude with the median of the latitude of the 10 fixes preceding and the 10 fixes following it. When the differences exceeded a preset tolerance of 10 kilometers, the fix was eliminated. The algorithm

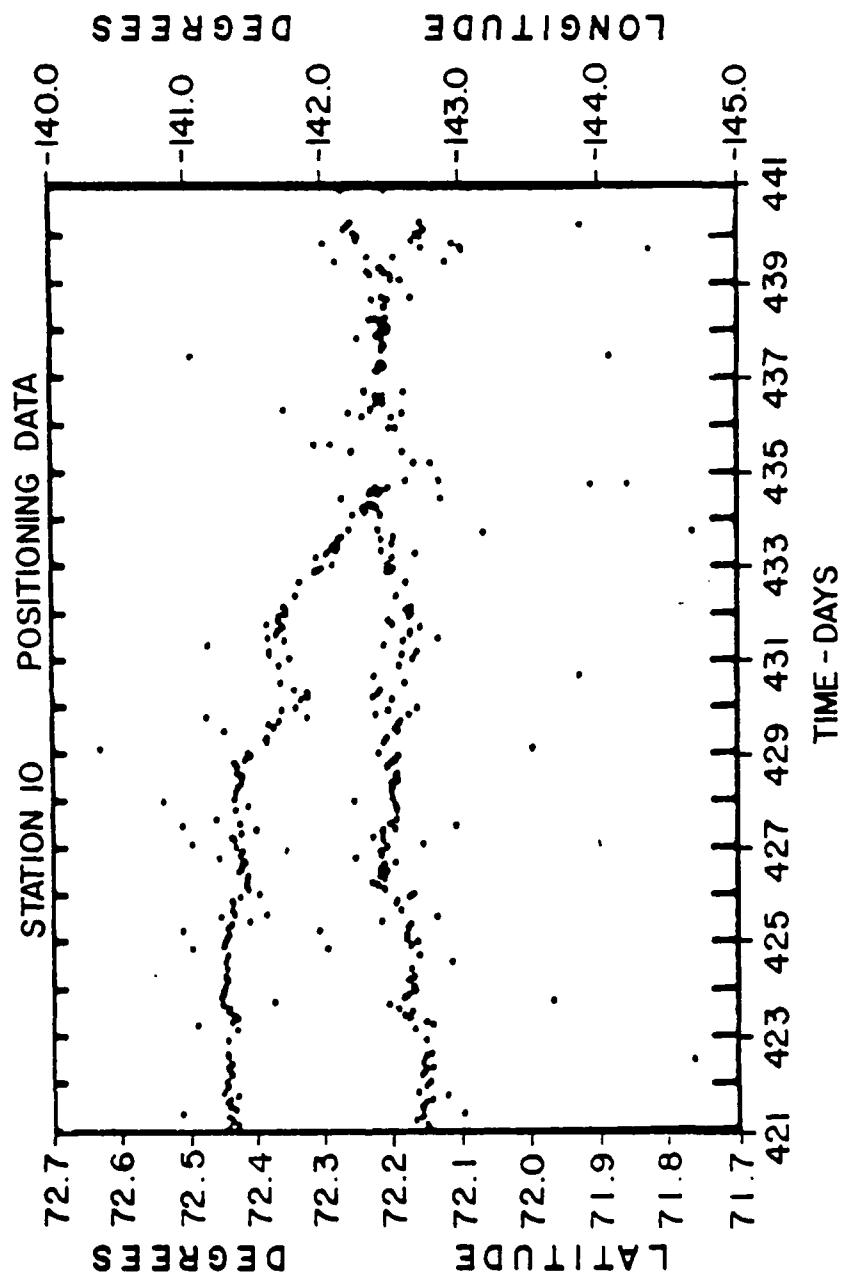


Figure 2 - Raw position data of latitude and longitude plotted against time in ADJEX days. Data were taken from a RAMS (Random Access Measurement System) buoy (station 10).

was applied twice, with a smaller tolerance of 1 kilometer the second time. The same procedure was then applied for longitude.

Visual checks were an important part of the procedure. Plots of the data points were produced before and after preprocessing. At times it seemed from the plots that we were not detecting certain bad fixes, or that we were throwing out good ones, and it was necessary to adjust the tolerance levels. Edited raw data plots like the one shown in Figure 3 provided assurance that the data were ready for filtering.

For the main experiment, AIDJEX adopted the convention of numbering days consecutively, beginning with day 1 = 1 January 1975 and ending with day 500 = 14 May 1976. Throughout this data report, this numbering system is used quite extensively. Appendix 3 provides a conversion table from AIDJEX days to calendar days.



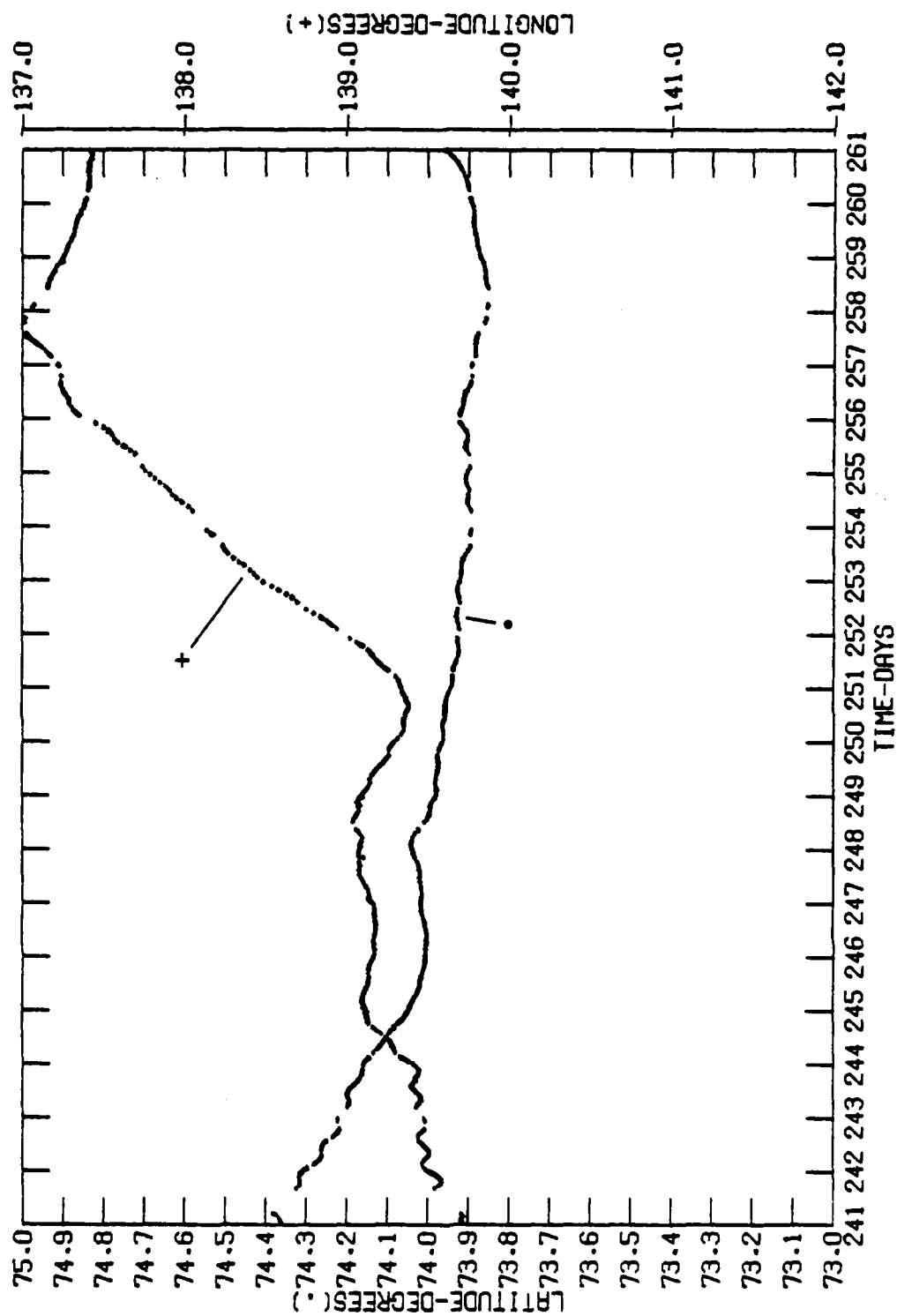


Figure 3 - Edited raw position data taken from camp Big Bear.

### Kalman Smoothing

In the smoothing used here an assumption is made regarding the motion of the ice. If the state of the ice at time  $t_n$  is represented by a vector  $X_n$ , containing, say, the position, velocity, and acceleration of a point, then the state at some future time is assumed to be partially determined by  $X_n$ :

$$X_{n+1} = \Phi X_n + \Gamma W_{n+1} \quad (1)$$

where  $\Phi$  and  $\Gamma$  are matrices known from the physics of the situation, and  $W_{n+1}$  represents an unknown random perturbation. In Kalman's formulation, which we follow, the random effects are assumed to be Gaussian and White:

$$\text{cov}(W_n, W_m) = \begin{cases} Q & \text{if } n = m, \text{ and} \\ 0 & \text{if } n \neq m \end{cases} \quad (2)$$

We have chosen  $Q = 100000 \text{ m}^2 \text{ hr}^{-6}$ . Qualitatively choosing a small value of  $Q$  is equivalent to assuming that the ice moves in a completely predetermined way. (See from equations 1 and 2 that  $Q = 0$  would imply that  $X_{n+1} = \Phi X_n$  a large value of  $Q$  corresponds to assuming that the ice experiences large sudden changes in its acceleration.) Thorndike and Cheung (1977) used  $Q = 100 \text{ m}^2 \text{ hr}^{-6}$ . The lower value of  $Q$  assumed smooth behavior, but was unnecessarily conservative. The present value of  $Q$  was determined by trial and error. A sequence of raw fixes was used as input to the Kalman filter. Several different runs were done using different values of  $Q$ . The present value of  $Q$  appeared to give the best agreement between the output from the filter and the raw fixes.

The original  $Q$  ( $100 \text{ m}^2 \text{ hr}^{-6}$ ) used by Thorndike and Cheung removed approximately 50% of the inertial period amplitude as can be seen in Figure 4. A constant amplitude sinusoidal function whose period varied linearly with time was chosen as the input to the Kalman filter with  $Q = 100 \text{ m}^2 \text{ hr}^{-6}$ . Input periods ranged from 0.5 hours (at day 10) to 60.4 hours (at day 15) with the inertial period being located at day 10.9. An approximate 50% attenuation of the input function at the inertial period can be roughly estimated from the graph.

Figure 5 shows the same input function and the resulting Kalman output with  $Q$  chosen to be  $100000 \text{ m}^2 \text{ hr}^{-6}$ . The inertial period passed through the filter with very little attenuation. Another test was then run, this time a constant amplitude, constant period (12 hours) sine wave was used to simulate the inertial period of the Arctic latitudes. The results indicated that there was only a 0.03% attenuation from the original input function.

For the Kalman reduction, we defined  $\Delta = t_{n+1} - t_n$ , and the matrices

$$x = \begin{bmatrix} \text{position} \\ \text{velocity} \\ \text{acceleration} \end{bmatrix} \quad \Phi = \begin{bmatrix} 1 & \Delta & \Delta^2/2 \\ 0 & 1 & \Delta \\ 0 & 0 & 0 \end{bmatrix} \quad (3)$$

$$\Gamma = \begin{bmatrix} \Delta^3/6 \\ \Delta^2/2 \\ \Delta \end{bmatrix} \quad (4)$$

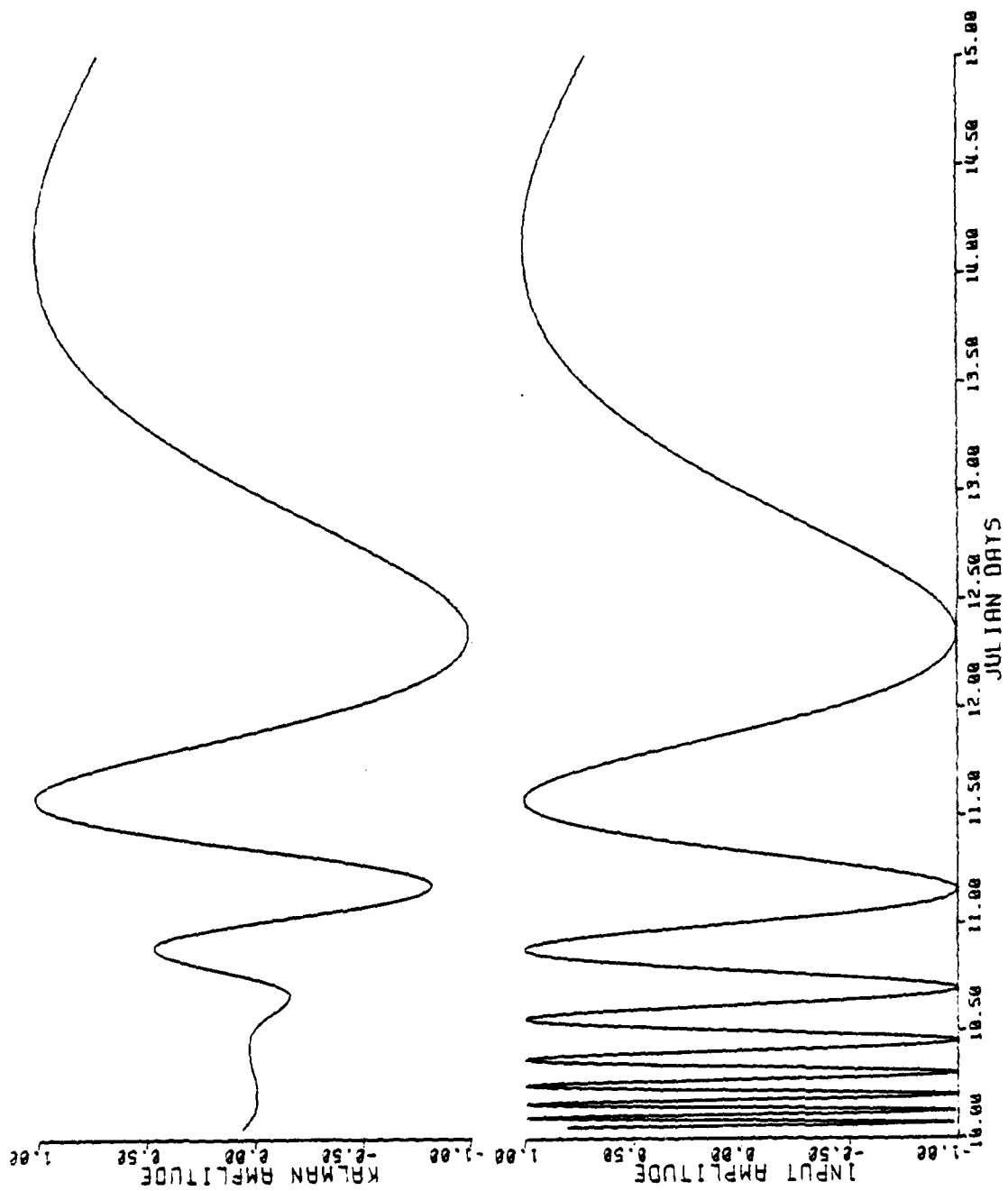


Figure 4 - Response of Kalman filter to input function with  $Q = 100$

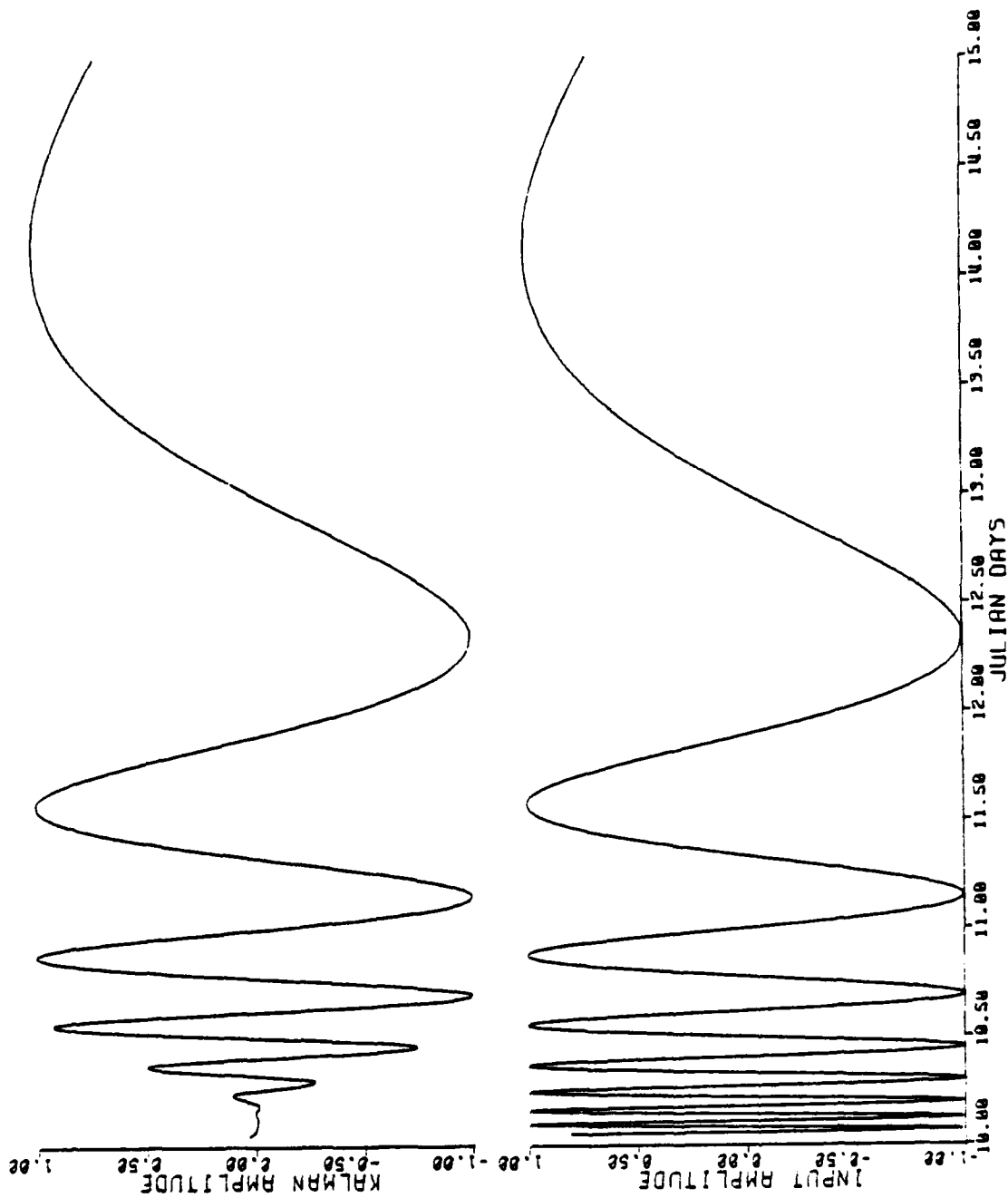


Figure 5 - Response of Kalman filter to input function with  $Q = 100000$

The dimensions of the matrices are  $X : 3 \times 1$ ,  $Q : 3 \times 3$ ,  $F : 3 \times 1$ ,  $\Phi : 3 \times 3$ ,  $W : 1 \times 1$ , and  $Q : 1 \times 1$ .

An identical equation can be written for the y-coordinates. The two coordinates are treated independently.

The measurement  $Z_n$  is related to  $X$  by

$$Z_n = (1 \ 0 \ 0) X_n + V_n$$

where  $V_n$  is a measurement error with assumed covariance  $R = (60 \text{ meters})^2$ .

The response of the measurement and processing system was investigated as follows. Four hundred sample points were drawn independently from a Gaussian distribution with zero mean and variance  $(50 \text{ meters})^2$ . A sampling interval of one hour was assumed. This noise simulated the Nav-Sat measurements. The sequence was used as input to the Kalman filter procedure. The velocity output from the filter shows two effects. First, since velocity is the time derivative of position, we expect to find the spectrum  $S_v(\omega)$  behaving as  $\omega^2 S_x(\omega)$ , where  $S_x(\omega)$  is the spectrum of position.  $S_x(\omega)$  was assumed to be white;  $S_x(\omega) \approx \sigma^2$ , which implies  $S_v(\omega) \approx \omega^2 \sigma^2$ . The second effect is the tendency of the filter to smooth out high frequencies. Qualitatively then, we have something like the diagram in Figure 6.

The actual spectrum of ice velocity is shown in Figure 7. The diagram illustrates how the measurement errors and finite sampling rate limit the accuracy of the velocity estimates. Most of the variance in the velocity errors occurs for the frequencies greater than 3 cycles per day. For lower frequencies we can estimate the contributions to the variance as 0 - 1.5 cycles

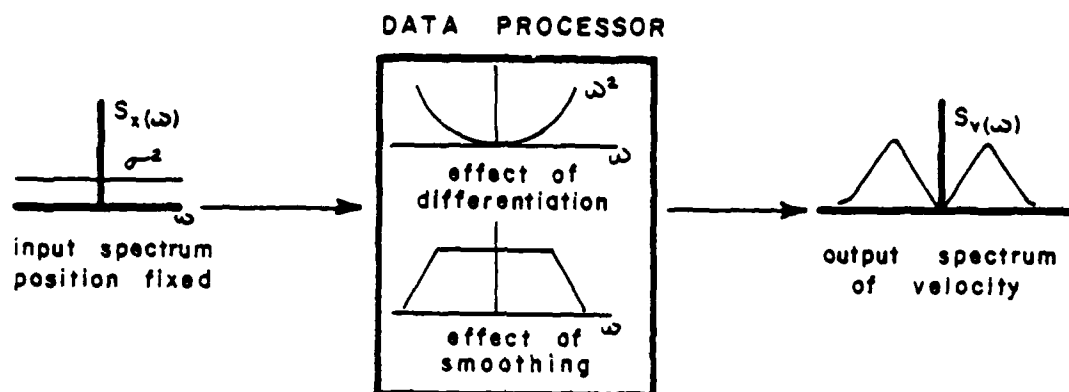


Figure 6 - Diagram showing qualitatively, the response of the measurement and processing system.

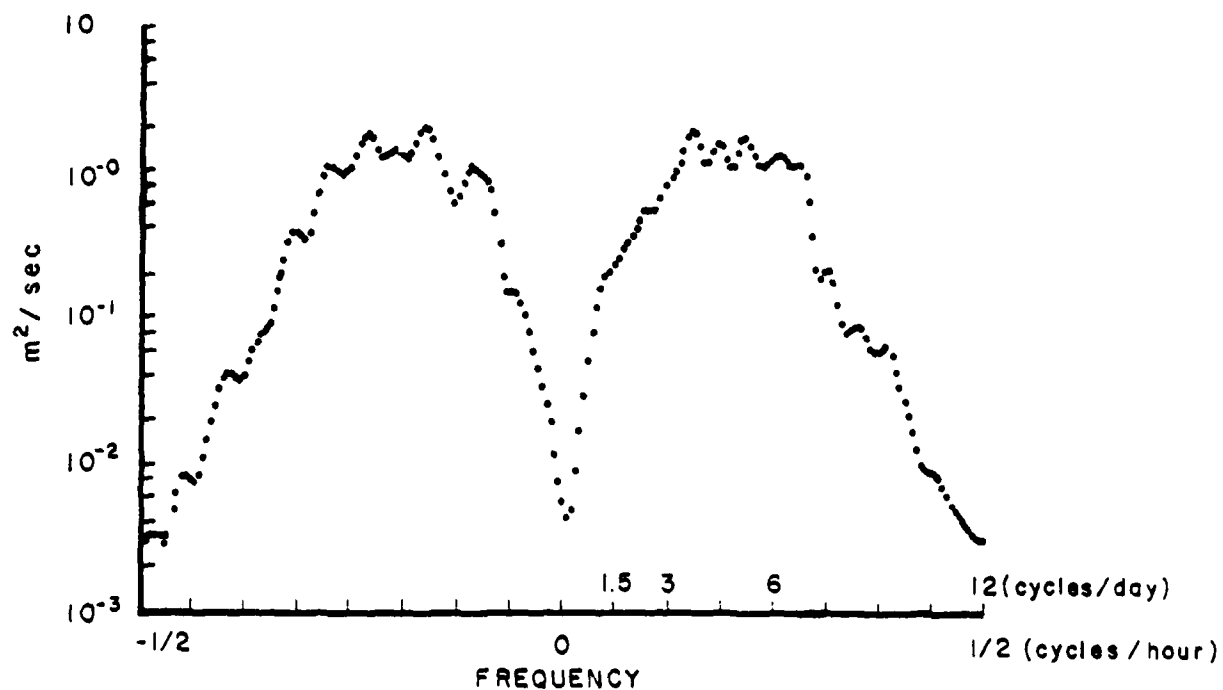


Figure 7 - Spectrum of ice velocity from a test run on the processing system. For a more complete description, see text.

per day:  $\sigma^2 \approx 3 \times 10^{-6} \text{ m}^2 \text{ sec}^{-2}$ , 1.5 - 3.0 cycles per day:  $\sigma^2 \approx 2 \times 10^{-5} \text{ m}^2 \text{ sec}^{-2}$  total variance 0 - 12 cycles per day:  $\sigma^2 \approx 10^{-4} \text{ m}^2 \text{ sec}^{-2}$ .

The general smoothing problem is to estimate  $X$  at time  $t_n$  using the entire set of observations  $(Z_i) i = 1 \dots m$ , and to give the error variance of that estimate. The solution equations, due to Kalman, are reproduced in Appendix 1. All positions were converted to an X-Y coordinate system prior to actual filtering. This coordinate system along with its governing equations are shown in Appendix 2. Typical estimation error variances for position and velocity are 40 meters and 1.0 cm/sec respectively.



## Results

The final data listing consists of five major columns. The first column is the time in decimal AIDJEX days corresponding to the observation of the position and ice velocity at a particular camp. The remaining columns indicate the camps for which data are applicable. Subdivisions under each major camp heading are LAT (latitude in decimal degrees), LONG (longitude in decimal degrees), and the north and east components of ice velocity in cm/sec. NIV and EIV respectively.

Due to the large amount of information contained in the data set, it was divided into two parts. This report (Volume 1) covers AIDJEX days 101 (11 April 1975) to 290 (17 October 1975). Volume 2 covers AIDJEX days 291 (18 October 1975) to day 490 (4 May 1976) (Thorndike and Manley, 1980).

Figures 8 - 11 show a more detailed drift track of each of the manned camps. An insert shows where the region lies with respect to the north slope of Alaska and Banks Island. Asterisks superimposed on the drift track indicate the positions at integral multiples of 20 days. The beginning and ending days are noted for each trajectory. A dashed line indicates a long period of missing data. The plotted region is 500 x 500 km and is aligned with the x, y coordinate system shown in Appendix 2. Figures 8 - 11 were reproduced from Thorndike and Cheung (1977).

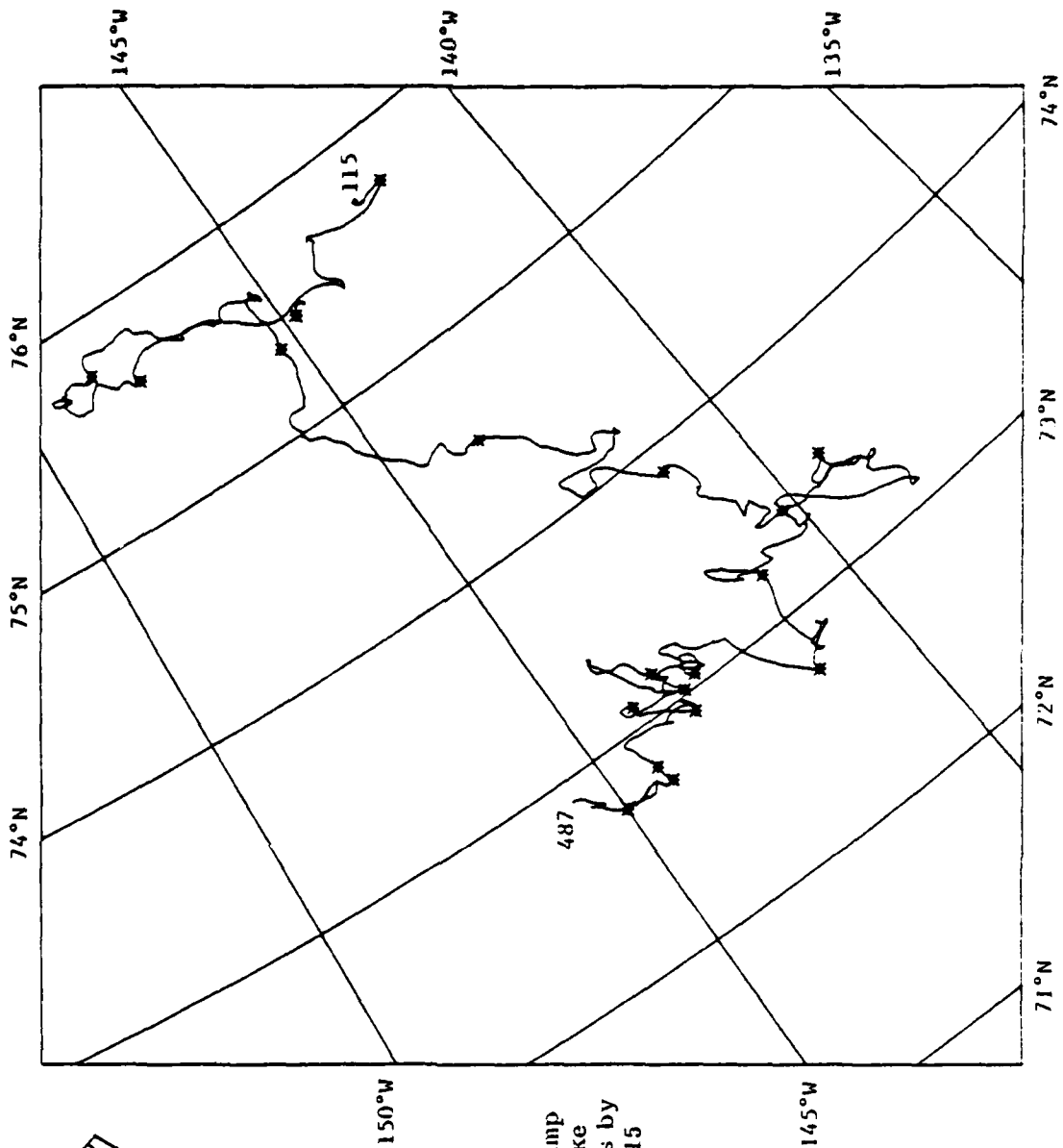


Figure 8 -

Camp Caribou

Became the main camp after Big Bear broke up. Measurements by NavSat from day 115 through 487.

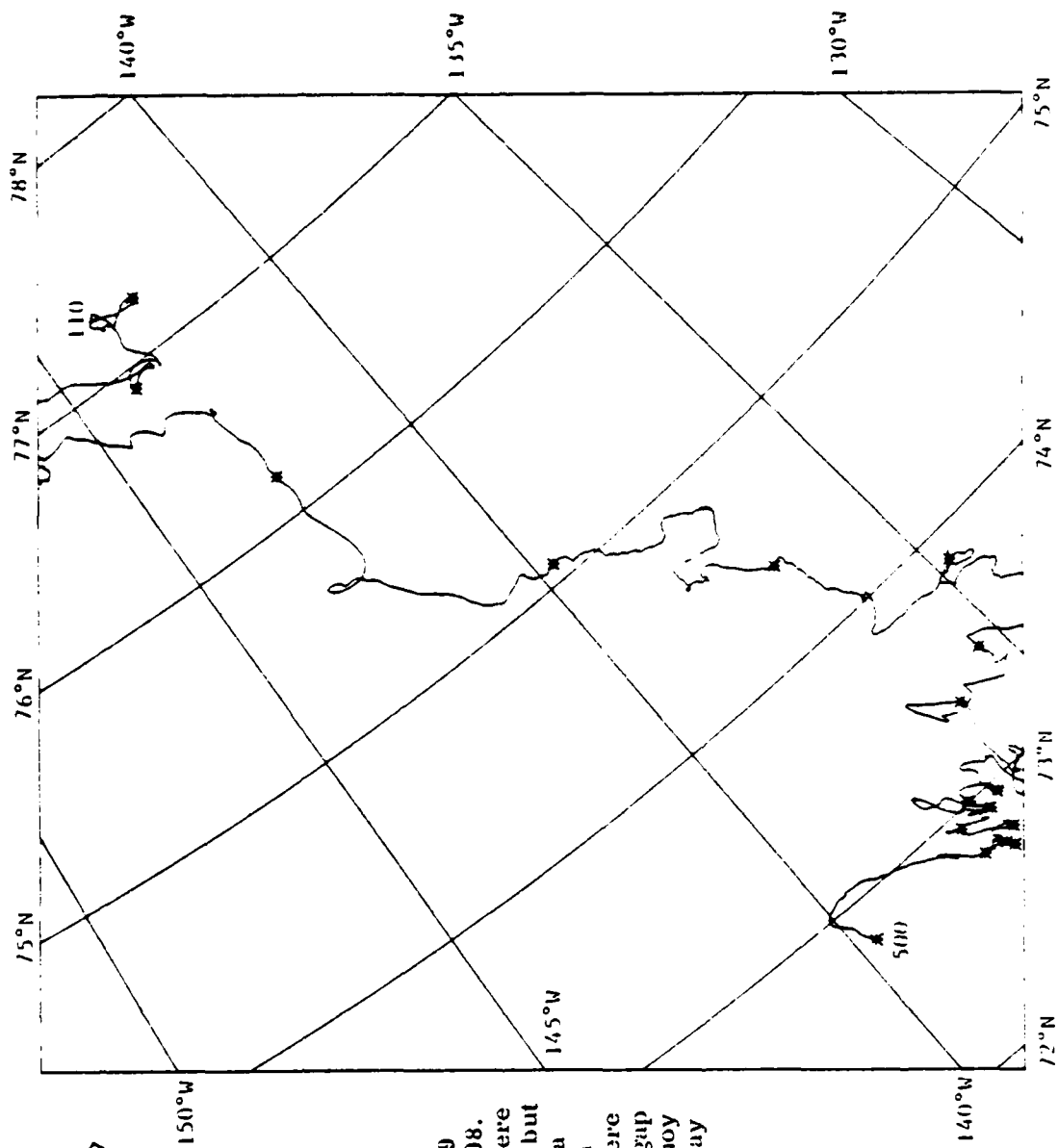


Figure 9 -

Camp Blue Fox

Measurements by NavSat from day 110 through 489 with a gap from 203 to 208. Celestial position fixes were made during that period but were not used in the data set. After day 490 data from RAMS buoy R772 were used. There is a data gap from 531 to 573. The buoy was last heard from on day 579.

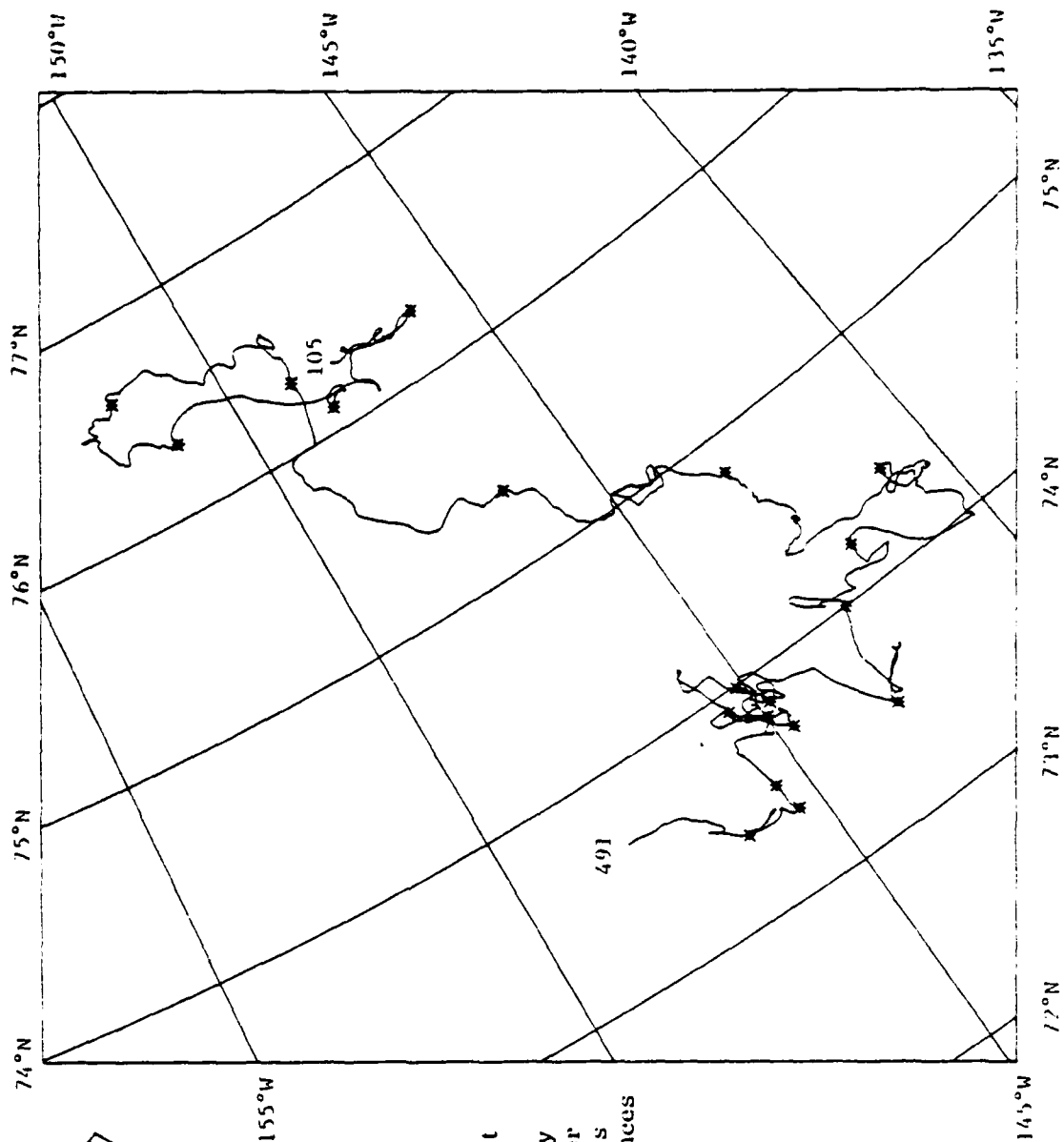


Figure 10

Camp Snowbird

Measurements by NavSat from 105 through 491. This station was split by cracks during the winter and the NavSat antennas were moved short distances several times.

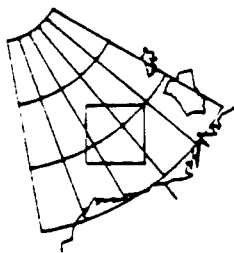
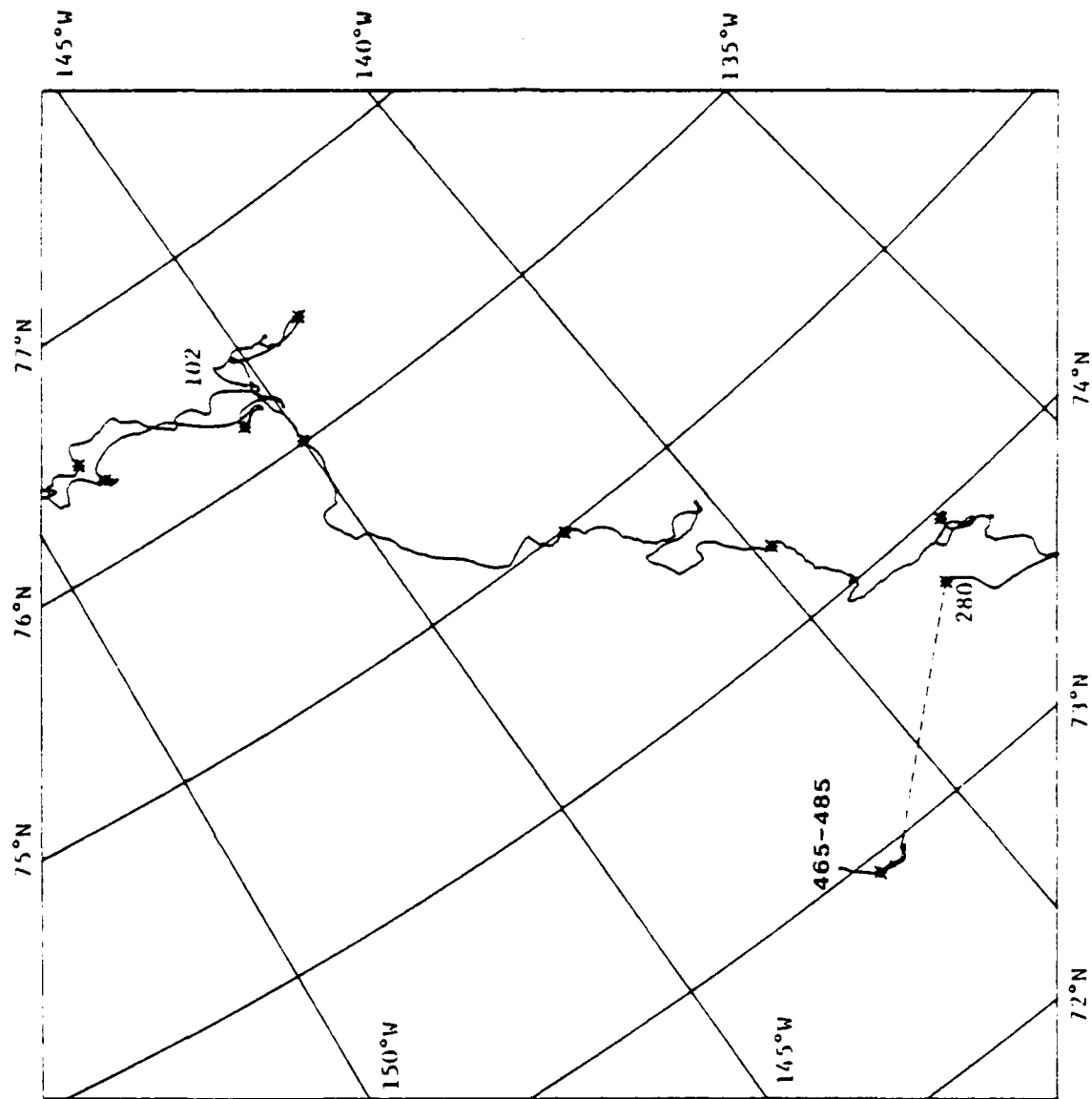


Figure 11

Camp Big Bear

Measurements were made by NavSat beginning on day 102. On day 274 the camp was broken up by ice activity and eventually abandoned, the last data being on day 280. For a brief period in the Spring of 1976 the station was re-occupied and position measurements were made using RAMS buoy R604, days 465-485. By this time the old camp had been spread over several kilometers.

# APPENDIX 1

## KALMAN SMOOTHING EQUATIONS

### Symbols

$x$	=	state vector ( $n \times 1$ )
$\Phi$	=	transition matrix ( $n \times n$ )
$\Gamma$	=	coefficient matrix for random perturbations to physical model ( $n \times m$ )
$W$	=	white noise driving the physical process ( $m \times 1$ )
$Q$	=	covariance matrix for $W$ ( $m \times m$ )
$Z$	=	measurement vector ( $l \times 1$ )
$H$	=	matrix relating measurement to state vector ( $l \times n$ )
$V$	=	measurement error vector ( $l \times 1$ )
$R$	=	measurement error covariance ( $l \times l$ )
$P$	=	prediction, filtering and smoothing error covariance matrix ( $n \times n$ )
$I$	=	identity matrix ( $n \times n$ )
$K$	=	Kalman gain matrix for filtering ( $n \times l$ )
$A$	=	smoothing gain matrix ( $n \times n$ )
$N$	=	number of measurements in the data sequence
$k$	=	index for the data sequence
$t$	=	time

The superscript  $T$  denotes the transpose operation. The symbol  $\hat{x}(i|j)$  means the estimate of  $x$  at time  $t_i$  given observations  $(Z_1, Z_2, \dots, Z_j)$ . The notation here follows Meditch (1969).

### Prediction

Given observations  $(Z_1, \dots, Z_k)$ , predict the state at the future time  $t_{k+1}$ , and find the prediction error covariance.

$$\hat{x}(k+1, |k) = \phi(k+1, k) \hat{x}(k | k), \quad A(1)$$

$$P(k+1 | k) = \phi(k+1, k) P(k | k) \phi^T(k+1, k) + \Gamma(k+1, k) Q(k) \Gamma^T(k+1, k). \quad A(2)$$

### Filtering

Given observations  $(Z_1, \dots, Z_k)$  and a new observation  $Z_{(k+1)}$ , estimate the present state at time  $t_{k+1}$  and find the filtering error covariance.

$$\hat{x}(k+1 | k+1) = \hat{x}(k+1 | k) + K(k+1) (Z(k+1) - H(k+1) \hat{x}(k+1 | k)), \quad A(3)$$

$$P(k+1 | k+1) = (I - K(k+1) H(k+1)) P(k+1 | k), \quad A(4)$$

where

$$K(k+1) = P(k+1 | k) H^T(k+1) (H(k+1) P(k+1 | k) H^T(k+1) + R(k+1))^{-1} \quad A(5)$$

### Smoothing

Given the complete data set  $(Z_1, \dots, Z_N)$ , estimate the state at any point  $t_k$ , and find the smoothing error covariance.

$$\hat{x}(k | N) = \hat{x}(k | k) + A(k) (\hat{x}(k+1 | N) - \hat{x}(k+1 | k)) \quad A(6)$$

$$P(k | N) = P(k | k) + A(k) (P(k+1 | N) - P(k+1 | k)) A^T(k), \text{ where} \quad A(7)$$

$$A(k) = P(k | k) \phi^T(k+1, k) P^{-1}(k+1 | k). \quad A(8)$$

### Implementation of the Filter Algorithm

Starting from an initial condition  $\chi(0|0)$ ,  $P(0|0)$ , a prediction is made to time  $t_1$ . The prediction error covariance matrix  $P(1|0)$  is used to obtain the Kalman gain  $K(1)$ . The filtered estimate  $\hat{\chi}(1|1)$  is then found by adding to the predicted  $\chi(1|0)$  a quantity which is proportional to the difference between the observation  $Z(1)$  and  $H(1)\hat{\chi}(1|0)$ .  $H(1)\hat{\chi}(1|0)$  is the value the measurement would have if the true state were actually  $\hat{\chi}(1|0)$  and no measurement errors were made. The algorithm is repeated as each new data point is entered until the last filtered quantities  $\hat{\chi}(N|N)$  and  $P(N|N)$  are produced.

The smoothing algorithm, proceeding backward in time, utilizes results from the prediction and filtering calculations. The first step is to find  $\hat{\chi}(N-1|N)$  and  $P(N-1|N)$  from equations A(6), A(7) and A(8). No direct use of the measurements is made in smoothing. The algorithm simply corrects the filtered vector  $\chi(k|k)$  by a quantity proportional to the difference between the prediction vector at time  $t_{k+1}$  and the smoothed value at time  $t_{k+1}$ .

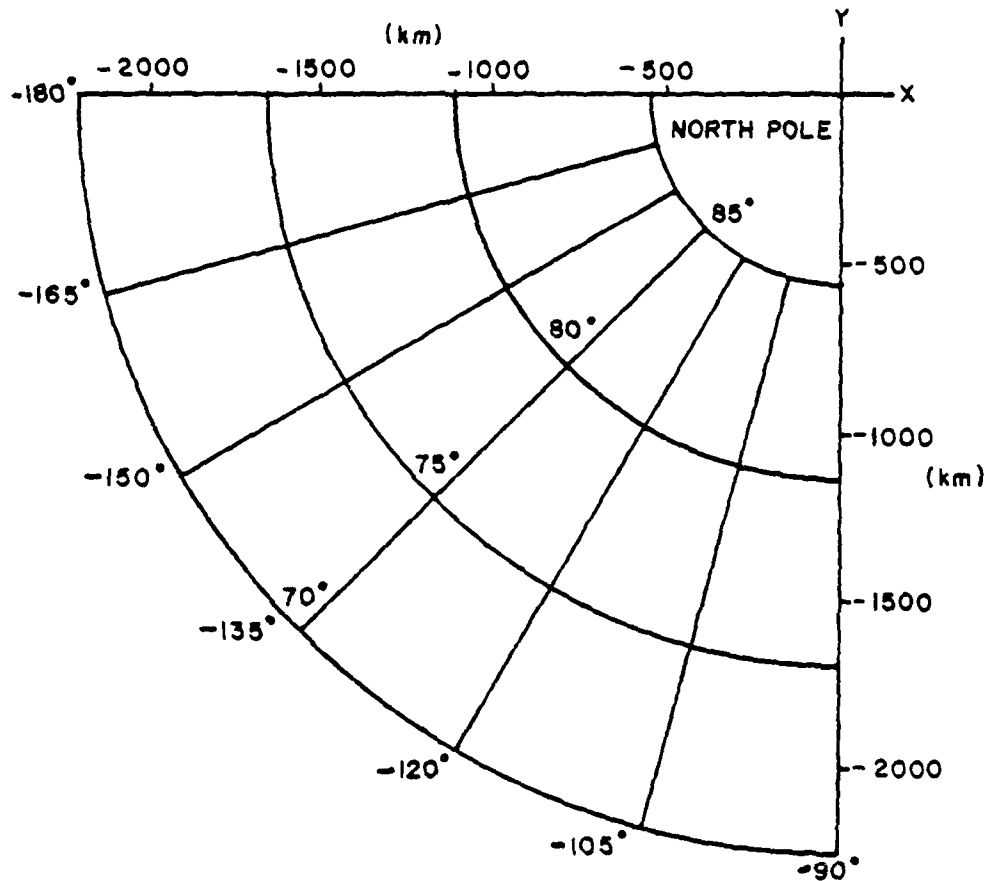
In the calculations done for this application, the CDC 6400 computer time required to do the prediction, filtering, and smoothing is about 0.5 second per data point, nearly half of which is absorbed in the matrix inversion in A(8). Because of the recursive nature of the filter, demands on central memory storage space are very modest.

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Reproduced from Thorndike, A.S., 1973, An integrated system for measuring sea ice motions. In *Ocean 73, IEEE International Conference on Engineering in the Ocean Environments*, IEEE publ. no. 73 CHO 774-0 OEC, pp. 490-499.



APPENDIX 2  
COORDINATE SYSTEMS



Position measurements were made in geographical coordinates (latitude north, longitude east). The smoothing operation was done in a Cartesian system (x,y), where

$$x = 110.949 (90^\circ - \text{latitude}) \cos (\text{longitude}) \text{ (km)}$$

$$y = 110.949 (90^\circ - \text{latitude}) \sin (\text{longitude}) \text{ (km)}$$

APPENDIX 3  
CONVERSION TABLE FOR AIDJEX DAYS  
TO CALENDAR DAYS

For the main experiment, AIDJEX adopted a convention of numbering days consecutively, beginning with day 1 = 01 January, 1975 and ending with day 500 = 14 May, 1976.

In the conversion table, the first column is the AIDJEX day, the second is the corresponding day of 1975 or 1976 and the third entry is the calendar date.

Appendix 3 - Conversion Table

101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280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## ACKNOWLEDGEMENTS

The satellite navigation portion of the work reported here was supported by the National Science Foundation Grant Arctic Sea Ice Study number DPP 79-09115. The authors gratefully acknowledge the many individuals who helped collect the navigation data at the manned camps during the AIDJEX Project.

We would like to thank Ken Hunkins for his cooperation and assistance, without which this report would have been impossible.

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Position and Ice Velocity Data

The following section comprises the updated positions and ice velocities for the four manned camps Caribou, Blue Fox, Snowbird and Big Bear. Data span from 11 April 1975 to 17 October 1975.

DAY	LAT	CAMP CAMPEND LONG	KIV	LAT	CAMP BLUE LONG	FOX	KIV	LAT	CAMP SNOWHERD LONG	EIV	LAT	CAMP BIG LONG	MEAN	EIV
101.073341														
101.080273														
101.120293														
101.141082														
101.161575														
101.193794														
101.223900														
101.260922														
101.290259														
101.311745														
101.339489														
101.364746														
101.411193														
101.439184														
101.459862														
101.486832														
101.518030														
101.602995														
101.637742														
101.711006														
101.737199														
101.757503														
101.774687														
101.827312														
101.850087														
101.951187														
101.972618														
102.023453														
102.036911														
102.047932														
102.086749														
102.112457														
102.122620														
102.160916														
102.187721														
102.197975														
102.233688														
102.262497														
102.306740														
102.347694														
102.379860														
102.392143														
102.556412														
102.568253														
102.601723														
102.615395														
102.629441														
102.641022														
102.670804														
102.702318														
102.711150														
102.752250														
102.761826														
102.776184														
102.830505														
102.850418														
102.904556														
102.925194														
102.931090														
103.076019														
103.123566														
103.151441														
103.236671														
103.239264														





DAY	LAT	CAMP CARIBOU LONG	NIV	FIV	LAT	CAMP HIDE LONG	NIV	FIV	LAT	CAMP HIG LONG	NIV	FIV
105.649467					76.2860	-147.9192	-10.2	11.0	76.5027	-145.5455	-5.5	7.0
105.649559									76.5019	-145.5405	-5.3	6.2
105.649572					76.2845	-147.9114	-9.7	11.1	76.5016	-145.5441	-5.7	8.5
105.649586									76.5007	-145.5430	-6.5	8.4
105.649612					76.2825	-147.9024	-8.7	9.2				
105.649619					76.2797	-147.8906	-6.7	8.8				
105.649626									76.4939	-145.5300	-4.8	9.1
105.649634									76.4973	-145.5672	-9.3	9.7
105.649641									76.4960	-145.5615	-9.9	10.9
105.649659					76.2785	-147.8820	-5.9	11.6				
105.649666					76.2772	-147.8685	-4.5	14.4	76.4936	-145.5490	-9.1	12.7
105.649674									76.4925	-145.5420	-8.2	13.4
105.649681					76.2764	-147.8559	-3.2	14.9				
105.649688									76.4919	-145.5376	-7.7	13.7
105.649695									76.4911	-145.5309	-7.2	14.1
105.649702									76.4878	-145.5024	-7.0	13.8
105.649709									76.4872	-145.4973	-7.2	13.4
105.649716					76.2752	-147.7996	0.0	13.2				
105.649723					76.2732	-147.7932	0.0	13.0	76.4851	-145.4798	-5.6	13.9
105.649730					76.2752	-147.7886	0.1	12.8				
105.649737									76.4843	-145.4680	-3.0	14.9
105.649744												
106.026146					76.2754	-147.7670	1.2	16.0				
106.026153					76.2758	-147.7515	2.5	18.5	76.4841	-145.4420	1.4	16.4
106.026160									76.4845	-145.4281	2.9	16.8
106.026167					76.2770	-147.7238	3.0	16.6	76.4857	-145.4031	3.2	15.0
106.026174					76.2775	-147.7099	1.9	13.5				
106.026181									76.4863	-145.3899	2.3	13.0
106.026188					76.2780	-147.6928	1.5	10.3	76.4870	-145.3723	1.7	11.2
106.026195					76.2783	-147.6867	1.6	9.6				
106.026202									76.4874	-145.3613	1.6	11.1
106.026209									76.4879	-145.3459	1.4	9.9
106.026216									76.4887	-145.3254	1.9	8.1
106.026223					76.2816	-147.6492	4.6	9.8				
106.026230					76.2824	-147.6421	4.9	10.4				
106.026237					76.2844	-147.6242	5.3	10.7				
106.026244					76.2853	-147.6166	5.5	10.5				
106.026251												
106.026258					76.2854	-147.6126	5.8	10.3	76.4910	-145.2957	3.2	8.7
106.026265									76.4922	-145.2828	4.0	10.5
106.026272					76.2879	-147.5985	6.2	10.1				
106.026279									76.4929	-145.2747	4.8	12.2
106.026286					76.2888	-147.5923	6.0	10.2				
106.026293									76.4933	-145.2708	5.2	12.7
106.026300					76.2894	-147.5879	5.8	10.3				
106.026307									76.4952	-145.2524	5.4	10.4
106.026314									76.4954	-145.2469	4.9	7.9
106.026321					76.2918	-147.5677	4.5	10.2				
106.026328					76.2922	-147.5645	4.1	10.1	76.4978	-145.2356	4.6	9.4
106.026335					76.2935	-147.5511	4.0	8.1	76.4985	-145.2312	5.0	7.7
106.026342												
106.026349					76.2941	-147.5465	4.5	7.0				
106.026356					76.2945	-147.5443	4.6	6.6	76.5009	-145.2134	5.4	10.9
106.026363												
106.026370					76.2969	-147.5312	4.9	7.0				
106.026377					76.2973	-147.5287	4.9	7.6				
106.026384												
106.026391												
106.026398												
106.026405												
106.026412												
106.026419												
106.026426												
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106.026454												
106.026461												
106.026468												
106.026475												
106.026482												
106.026489												
106.026496												
106.026503												
106.026510												
106.026517												
106.026524												
106.026531												
106.026538												
106.026545												
106.026552												
106.026559												
106.026566												
106.026573												
106.026580												
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106.026601												
106.026608												
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106.026636												
106.026643												
106.026650												
106.026657												
106.026664												
106.026671												
106.026678												
106.026685												
106.026692												
106.026699												
106.026706												
106.026713												
106.026720												
106.026727												
106.026734												
106.026741												
106.026748												
106.026755												
106.026762												
106.026769												
106.026776												
106.026783												
106.026790												
106.026797												
106.026804												
106.026811												
106.026818												
106.026825												
106.026832												
106.026839												
106.026846												
106.026853												
106.026860												
106.026867												
106.026874												
106.026881												
106.026888												
106.026895												
106.026902												
106.026909												
106.026916												
106.026923												
106.026930												
106.026937												
106.026944												
106.026951												
106.026958												
106.026965												
106.026972												
106.026979												
106.026986												
106.026993												
106.026999												





DAY	CAMP CARLEIGH LAT LONG	NIV	NIV	LAT	CAMP BLUE FOX LONG	NIV	NIV	LAT	CAMP SHUMKIND LONG	NIV	NIV	LAT	CAMP BIG BEAR LONG	NIV	NIV
10-141724															
10-144932															
10-218647															
10-234831															
10-255918															
10-261528															
10-290230															
10-290302															
10-312881															
10-313039															
10-313069															
10-363785															
10-363914															
10-387497															
10-387535															
10-406380															
10-406456															
10-419777															
10-430981															
10-437057															
10-462124															
10-462151															
10-480286															
10-510101															
10-510101															
10-516415															
10-516552															
10-565834															
10-584275															
10-584359															
10-610298															
10-610466															
10-650837															
10-650982															
10-681810															
10-703110															
10-805588															
10-829002															
10-880798															
10-880916															
10-901123															
10-921691															
10-923867															
10-935867															
10-956398															
10-956459															
10-973289															
11-012028															
11-012059															
11-045682															
11-045776															
11-073448															
11-073512															
11-084655															
11-087323															
11-102410															
11-118521															
11-118641															
11-161869															
11-182117															
11-182197															
11-192010															
11-193070															
11-221892															
11-226722															
11-226733															
11-226743															
11-226750															
11-236559															
76-4808															
76-4805															
76-4804															
76-4802															
76-4800															
76-4799															
76-4797															
76-4796															
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76-4786															
76-4797															
76-4801															
76-4816															
76-4823															
76-4832															
76-4842															
76-4848															
76-4863															
76-4866															
76-4871															
76-4876															
76-4878															
76-4887															
76-4888															
76-4890															
76-4892															

76-3010 -146.7637 0.7 -4.4



DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP BLUE LONG	FOX	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG LONG	NIV	EIV
112-125003																	
112-125016																	
112-125081																	
112-125104																	
112-200523																	
112-210057																	
112-218925																	
112-219093																	
112-260025																	
112-260124																	
112-292976																	
112-293114																	
112-334480																	
112-334641																	
112-334873																	
112-349030																	
112-367523																	
112-367615																	
112-367706																	
112-408394																	
112-408554																	
112-422412																	
112-422422																	
112-443210																	
112-481781																	
112-481941																	
112-495270																	
112-495410																	
112-516319																	
112-554704																	
112-554909																	
112-568210																	
112-569516																	
112-589592																	
112-621594																	
112-627617																	
112-633644																	
112-643341																	
112-663117																	
112-663264																	
112-700247																	
112-700430																	
112-711729																	
112-713753																	
112-734523																	
112-745004																	
112-825164																	
112-825280																	
112-809502																	
112-809639																	
112-809753																	
112-847137																	
112-860786																	
112-861414																	
112-881700																	
112-881821																	
112-881935																	
112-921005																	
112-921074																	
112-921265																	
112-936249																	
112-936310																	
112-953926																	
112-953949																	
112-954041																	
112-963058																	
113-011444																	
113-026253																	









[illegible]

























DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP MUDF LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP HIC LONG	NIV	EIV
122-287376					77.2384	-142.6199	1.2	-1.4	76.2790	-146.0842	0.0	-4.1	76.4522	-143.6973	-0.1	-4.5
122-287582									76.2790	-146.0852	0.3	-4.1				
122-287584					77.2388	-142.6216	1.7	-0.7	76.2791	-146.0884	0.8	-3.0	76.4522	-143.7007	0.4	-3.1
122-287570									76.2792	-146.0890	0.9	-2.5	76.4523	-143.7013	0.5	-2.7
122-321381									76.2793	-146.0900	0.7	-1.6	76.4523	-143.7023	0.8	-1.6
122-321541																
122-321571					77.2391	-142.6215	1.9	0.9								
122-321812					77.2394	-142.6207	2.0	1.6	76.2793	-146.0907	0.2	-1.0	76.4525	-143.7032	1.2	-0.7
122-322950																
122-323010																
122-323140																
122-323193																
122-327208																
122-328093																
122-328168					77.2399	-142.6189	1.5	0.8	76.2793	-146.0921	-0.7	-1.9	76.4528	-143.7039	1.1	-1.3
122-328484									76.2791	-146.0938	-0.5	-2.8				
122-329101																
122-329145																
122-329187																
122-329370																
122-329543																
122-329583																
122-329709																
122-329786					77.2401	-142.6188	0.8	-0.5								
122-329812																
122-329897																
122-329919																
122-329934																
122-329941																
122-329944																
122-329947																
122-329950																
122-329953																
122-329956																
122-329959																
122-329962																
122-329965																
122-329968																
122-329971																
122-329974																
122-329977																
122-329980																
122-329983																
122-329986																
122-329989																
122-329992																
122-329995																
122-329998																
122-330001																
122-330004																
122-330007																
122-330010																
122-330013																
122-330016																
122-330019																
122-330022																
122-330025																
122-330028																
122-330031																
122-330034																
122-330037																
122-330040																
122-330043																
122-330046																
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122-330052																
122-330055																
122-330058																
122-330061																
122-330064																
122-330067																
122-330070																
122-330073																
122-330076																
122-330079																
122-330082																
122-330085																
122-330088																
122-330091																
122-330094																
122-330097																
122-330100																
122-330103																
122-330106																
122-330109																
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122-330115																
122-330118																
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122-330160																
122-330163																
122-330166																
122-330169																
122-330172																













DAY	LAT	CAMP CARIBOU LONG. NIV EIV	LAT	CAMP BLUE FOX LONG. NIV EIV	LAT	CAMP SHORRIND LONG. NIV EIV	LAT	CAMP BIG BFAH LONG. NIV EIV
125.667236								
125.667267								
125.693840								
125.693977								
125.6939303								
125.740715								
125.741692								
125.741745								
125.741936								
125.767891								
125.768135								
125.774002								
125.793144								
125.795036								
125.816132								
125.816226								
125.839783								
125.842545								
125.842812								
125.870384								
125.870430								
125.885796								
125.892149								
125.892346								
125.896456								
125.917732								
125.917939								
125.936424								
125.945328								
125.967866								
125.967995								
125.968033								
125.993233								
126.008751								
126.008797								
126.008827								
126.016357								
126.016495								
126.043404								
126.043484								
126.068126								
126.068177								
126.081619								
126.091652								
126.118416								
126.118523								
126.143822								
126.143875								
126.154910								
126.155014								
126.155174								
126.192810								
126.193001								
126.193054								
126.228867								
126.228951								
126.229141								
126.239685								
126.266693								
126.266884								
126.266966								
126.292534								
126.303276								
126.312752								
126.365738								
75.67148								
75.6759								
75.6770								
75.6788								
75.6799								
75.6819								
75.6824								
77.2357								
77.2359								
77.2365								
77.2371								
77.2380								
77.2385								
77.2386								
77.2391								
77.2394								
77.2397								
77.2400								
76.2582								
76.2584								
76.2591								
76.2598								
76.2604								
76.2606								
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76.2611								
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76.2652								
76.2661								
76.2665								
76.2679								
76.2692								
76.2701								
76.2713								
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76.2752								
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76.2769								
76.2773								
76.2776								





DAY	LAT	CAMP CARIBOU LONG	NEV	FIV	LAT	CAMP BLUE LONG	NEV	FIV	LAT	CAMP SNOWHIRE LONG	NEV	FIV	LAT	CAMP HIG BFAK LONG	NEV	EIV
127.57354	75.7284	-143.7589	-1.0	-1.5	77.2616	-143.4101	1.5	-1.3	76.3014	-147.5924	1.7	-1.6	76.4634	-145.1151	1.3	-0.8
127.59457	75.7285	-143.7578	-0.4	-1.5	77.2619	-143.4129	1.6	-1.7	76.3017	-147.5935	1.6	-1.5				
127.59961					77.2622	-143.4156	1.5	-4.4	76.3019	-147.5945	1.3	-1.6	76.4638	-145.1159	0.9	-1.0
127.59973									76.3020	-147.5950	1.1	-1.7				
127.62270					77.2626	-143.4251	0.7	-4.5	76.3022	-147.5959	0.1	1.5				
127.62275					77.2627	-143.4293	0.3	-3.8								
127.62280	75.7285	-143.7647	-3.5	-1.7					76.3021	-147.5916	-0.1	0.8				
127.641724	75.7286	-143.7659	-1.4	-1.9	77.2628	-143.4324	0.3	-4.3	76.3023	-147.5952	0.9	-3.0				
127.641810					77.2629	-143.4361	0.4	-5.1	76.3025	-147.5970	1.0	-2.1	76.4643	-145.1327	0.4	-3.5
127.641906					77.2630	-143.4419	0.6	-5.2								
127.650696																
127.650822					77.2631	-143.4456	1.0	-4.8								
127.656167					77.2635	-143.4524	1.2	-5.1	76.3028	-147.5994	0.6	-3.3	76.4644	-145.1382	0.1	-3.8
127.696327					77.2636	-143.4548	1.1	-5.5	76.3029	-147.6005	0.6	-2.0				
127.696457																
127.726524					77.2640	-143.4629	1.7	-5.9	76.3031	-147.6019	0.9	-2.6				
127.748093					77.2643	-143.4673	2.3	-5.5	76.3032	-147.6039	1.3	-3.1				
127.748123					77.2645	-143.4698	2.3	-5.1								
127.748207					77.2649	-143.4735	2.2	-4.4	76.3034	-147.6053	1.5	-3.0				
127.770348									76.3037	-147.6072	1.9	-2.3	76.4653	-145.1504	1.4	-2.8
127.770608													76.4655	-145.1517	1.7	-2.5
127.801994					77.2652	-143.4756	2.1	-3.9								
127.802071									76.3043	-147.6091	2.2	-1.0	76.4658	-145.1537	1.5	-2.4
127.802254					77.2656	-143.4789	2.0	-3.7								
127.823215					77.2657	-143.4805	1.9	-3.9	76.3045	-147.6095	2.0	-1.1				
127.823341																
127.823532					77.2661	-143.4836	1.9	-3.5	76.3048	-147.6106	1.3	-1.7	76.4662	-145.1564	1.6	-1.8
127.864189																
127.868301																
127.877289																
127.877333																
127.898766																
127.916469																
127.917000																
127.917084																
127.928736																
127.939049																
127.951965																
127.952133																
127.974457																
127.974564																
127.974564																
127.989326																
127.989388																
127.989410																
128.013763																
128.013870																
128.014023																
128.026093																
128.026137																
128.026167																
128.049911																
128.049911																
128.050003																
128.050156																
128.061935																
128.062088																
128.062195																
128.071150																
128.071411																
128.071594																
128.089066																
128.089188																

DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP HUE LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG BEAR LONG	NIV	EIV
128.089349	75.7203	-143.7941	-1.3	-1.2	77.2667	-143.4870	2.2	-1.6	76.3050	-147.6159	0.2	-1.4	76.4670	-145.1579	0.6	0.1
128.089781	75.7202	-143.7952	-1.5	-1.4	77.2669	-143.4876	2.1	-1.3	76.3051	-147.6164	0.3	0.3	76.4671	-145.1578	0.2	0.3
128.089640	75.7195	-143.7961	-1.4	-1.2	77.2674	-143.4891	1.4	-1.3	76.3051	-147.6164	0.3	0.3	76.4671	-145.1573	0.0	0.7
128.089439	75.7186	-143.7976	-1.9	-0.7	77.2677	-143.4914	0.5	-2.2	76.3051	-147.6163	0.1	0.5	76.4671	-145.1569	0.0	-0.4
128.089256	75.7182	-143.7977	-5.0	-0.5	77.2677	-143.4937	0.1	-2.9	76.3050	-147.6157	-1.1	0.1	76.4671	-145.1572	-0.2	-1.2
128.089158	75.7172	-143.7983	-4.9	-1.2	77.2677	-143.4948	0.0	-3.2	76.3045	-147.6163	-2.0	-0.9	76.4669	-145.1633	-0.5	-3.9
128.089106	75.7155	-143.8011	-4.4	-2.1	77.2676	-143.4991	-0.9	-3.0	76.3042	-147.6174	-1.7	-1.7	76.4668	-145.1647	-0.5	-4.0
128.089198	75.7146	-143.8031	-4.3	-1.9	77.2676	-143.4991	-0.9	-3.0	76.3040	-147.6180	-1.5	-2.2	76.4668	-145.1647	-0.5	-4.0
128.089396	75.7143	-143.8037	-4.1	-1.8	77.2671	-143.5039	-1.3	-3.4	76.3039	-147.6189	-1.3	-2.8	76.4667	-145.1685	-0.7	-3.9
128.089396	75.7139	-143.8041	-4.0	-1.8	77.2668	-143.5120	-0.4	-5.1	76.3037	-147.6216	-1.0	-3.7	76.4665	-145.1728	-1.2	-4.1
128.089396	75.7134	-143.8052	-3.8	-1.6	77.2668	-143.5120	-0.4	-5.1	76.3034	-147.6259	-1.1	-2.7	76.4663	-145.1745	-1.4	-4.4
128.089396	75.7124	-143.8068	-3.4	-1.5	77.2668	-143.5120	-0.4	-5.1	76.3033	-147.6268	-1.3	-2.1	76.4660	-145.1787	-1.3	-4.8
128.089396	75.7121	-143.8074	-3.3	-1.6	77.2668	-143.5159	0.1	-5.1	76.3031	-147.6276	-1.5	-1.1	76.4658	-145.1840	-0.2	-4.4
128.089396	75.7119	-143.8080	-3.1	-1.8	77.2668	-143.5159	0.1	-5.1	76.3030	-147.6278	-1.6	-0.6	76.4658	-145.1840	-0.2	-4.4
128.089396	75.7115	-143.8089	-2.8	-1.9	77.2668	-143.5189	0.6	-4.8	76.3027	-147.6283	-1.9	-0.5	76.4658	-145.1859	0.3	-4.1
128.089396	75.7113	-143.8094	-2.7	-2.0	77.2668	-143.5189	0.6	-4.8	76.3025	-147.6285	-1.9	-0.8	76.4658	-145.1859	0.3	-4.1
128.089396	75.7108	-143.8111	-2.0	-1.9	77.2668	-143.5189	0.6	-4.8	76.3023	-147.6288	-1.8	-1.1	76.4658	-145.1859	0.3	-4.1
128.089396	75.7106	-143.8118	-1.6	-1.7	77.2668	-143.5189	0.6	-4.8	76.3020	-147.6298	-1.4	-1.3	76.4658	-145.1859	0.3	-4.1
128.089396	75.7105	-143.8123	-1.4	-1.6	77.2668	-143.5189	0.6	-4.8	76.3018	-147.6308	-0.9	-1.0	76.4658	-145.1859	0.3	-4.1
128.089396	75.7104	-143.8131	-1.1	-1.3	77.2668	-143.5189	0.6	-4.8	76.3018	-147.6308	-0.9	-1.0	76.4658	-145.1859	0.3	-4.1
128.089396	75.7102	-143.8141	-0.4	-0.6	77.2668	-143.5189	0.6	-4.8	76.3018	-147.6308	-0.9	-1.0	76.4658	-145.1859	0.3	-4.1
128.089396	75.7101	-143.8143	-0.1	-0.3	77.2668	-143.5189	0.6	-4.8	76.3018	-147.6308	-0.9	-1.0	76.4658	-145.1859	0.3	-4.1



DAY	LAT	CAMP CAMPBND	LONG	NIV	EIV	LAT	CAMP BLUE	LONG	NIV	EIV	LAT	CAMP SNOWBND	LONG	NIV	FIV	LAT	CAMP BIG BEAR	LONG	NIV	EIV
124-214145	75.7101	-143.8144	0.1	-0.1		77.2679	-143.5365	1.5	-1.5		76.3017	-147.6314	-0.3	-0.7		76.4672	-145.2031	1.3	-2.9	
124-214221	75.7102	-143.8143	0.4	0.3		77.2682	-143.5401	1.5	-4.2		76.3017	-147.6320	0.3	-0.9						
124-214290	75.7102	-143.8140	-0.1	0.5		77.2685	-143.5441	1.4	-4.9		76.3018	-147.6330	0.7	-1.4						
124-214320	75.7100	-143.8132	-0.9	0.4		77.2689	-143.5508	1.7	-4.1		76.3020	-147.6350	0.6	-1.4						
124-214340	75.7098	-143.8129	-0.9	0.4		77.2697	-143.5551	2.5	-1.1		76.3021	-147.6354	0.4	-1.2						
124-214360	75.7097	-143.8127	-0.8	0.6		77.2702	-143.5559	2.6	-1.1		76.3021	-147.6359	-0.3	0.2						
124-214380	75.7096	-143.8122	-0.6	0.7		77.2705	-143.5565	2.7	-1.9		76.3018	-147.6342	-0.9	1.8				1.0	0.8	
124-214400	75.7095	-143.8119	-0.5	0.5		77.2709	-143.5583	2.5	-3.8		76.3018	-147.6335	-0.9	1.4				1.0	1.1	
124-214420	75.7094	-143.8118	-0.6	-0.2		77.2712	-143.5606	2.4	-4.9		76.3017	-147.6330	0.6	-0.6				1.1	0.6	
124-214440	75.7094	-143.8120	-0.7	-0.7		77.2717	-143.5656	2.4	-5.7		76.3017	-147.6329	0.3	-0.3				0.8	-1.8	
124-214460	75.7092	-143.8128	-0.7	-1.1		77.2719	-143.5686	2.4	-5.3		76.3018	-147.6334	1.2	-0.8				0.7	-2.8	
124-214480	75.7092	-143.8134	-0.6	-1.3		77.2723	-143.5723	2.4	-4.7		76.3020	-147.6338	1.4	-0.7				0.9	-3.5	
124-214500	75.7091	-143.8143	-0.5	-1.5		77.2727	-143.5753	2.4	-3.8		76.3022	-147.6344	1.1	-1.3				1.6	-3.2	
124-214520	75.7090	-143.8148	-0.4	-1.7		77.2734	-143.5785	2.4	-1.3		76.3023	-147.6357	0.9	-2.7				1.8	-3.1	
124-214540	75.7090	-143.8154	-0.4	-1.8		77.2719	-143.5769	3.2	-0.1		76.3023	-147.6357	0.9	-2.7				2.2	-2.7	
124-214560	75.7089	-143.8168	-0.1	-1.8		77.2727	-143.5753	2.4	-3.8		76.3027	-147.6394	2.2	-3.2				2.3	-2.4	
124-214580	75.7089	-143.8171	0.0	-1.7		77.2734	-143.5785	2.4	-1.3		76.3027	-147.6394	2.2	-3.2				2.3	-2.4	
124-214600	75.7090	-143.8181	0.2	-1.5		77.2719	-143.5769	3.2	-0.1											
124-214620	75.7090	-143.8186	0.2	-1.4																
124-214640	75.7090	-143.8192	0.3	-1.4																
124-214660	75.7091	-143.8199	0.4	-1.4																
124-214680	75.7091	-143.8199	0.4	-1.4																
124-214700	75.7091	-143.8199	0.4	-1.4																

DAY	LAT	CAMP CARLEIGH LONG	NIV	FIV	LAT	CAMP HIDE LONG	FOX	NIV	EIV	LAT	CAMP SNOWHIRE LONG	NIV	FIV	LAT	CAMP HIG LONG	NIV	EIV
128-900223					77.2748	-143.5797	3.6	-2.0		76.3042	-147.6436	2.7	-1.4	76.4709	-145.2222	2.7	-2.8
128-900375																	
128-900905																	
128-908997	75.7091	-143.8203	0.5	-1.3						76.3044	-147.6441	2.6	-1.4	76.4711	-145.2231	2.8	-3.0
128-909149	75.7091	-143.8207	0.7	-1.2						76.3048	-147.6451	2.6	-1.7				
128-918259																	
128-918411	75.7093	-143.8214	1.1	-1.0						76.3052	-147.6464	2.9	-2.3	76.4718	-145.2267	3.3	-4.0
128-939926	75.7095	-143.8220	1.5	-1.2						76.3058	-147.6477	3.3	-2.8				
128-940033	75.7097	-143.8227	1.7	-1.6													
128-940140										76.4728	-145.2316	3.8	-4.0				
128-959427										76.4731	-145.2327	4.0	-3.7				
128-959625																	
128-974915																	
128-974976																	
128-975021																	
128-983994																	
128-984024																	
128-992783																	
129-050079										76.3079	-147.6543	3.8	-1.3				
129-050278	75.7108	-143.8276	2.1	-1.4													
129-050339	75.7109	-143.8279	2.0	-1.0	77.2791	-143.6084	3.0	-4.9									
129-058594	75.7111	-143.8281	2.0	-0.5													
129-110245					77.2804	-143.6158	2.9	-2.5		76.3096	-147.6540	4.4	0.8				
129-110260	75.7117	-143.8278	2.0	0.5						76.3102	-147.6536	4.9	0.7				
129-110489																	
129-125458	75.7120	-143.8276	2.0	0.5													
129-132339																	
129-132401	75.7121	-143.8275	1.9	0.4													
129-132475	75.7122	-143.8274	1.9	0.4													
129-162262	75.7125	-143.8271	1.8	0.4													
129-162308																	
129-162399																	
129-185074	75.7128	-143.8268	1.3	0.8													
129-185242																	
129-200607																	
129-200623	75.7129	-143.8262	1.1	1.3													
129-200821	75.7130	-143.8257	0.9	1.8													
129-213043																	
129-213343	75.7131	-143.8241	0.6	2.2													
129-216343																	
129-216450																	
129-259323	75.7132	-143.8227	0.5	1.6													
129-259399																	
129-275269																	
129-275289	75.7133	-143.8219	0.4	1.3													
129-275421	75.7133	-143.8215	0.4	1.0													
129-285869	75.7134	-143.8211	0.2	0.0													
129-310924																	
129-310928																	
129-313060	75.7134	-143.8214	0.2	-0.7													
129-332993																	
129-332993	75.7135	-143.8219	0.2	-0.9													
129-351700																	
129-351913	75.7135	-143.8221	0.2	-1.0													
129-359161																	
129-359175																	
129-385498																	
129-406087	75.7136	-143.8213	0.6	-0.5													
129-432953	75.7138	-143.8215	0.9	-0.1													
129-433121																	
129-459045	75.7140	-143.8235	1.2	0.0													
129-459152																	
129-459202																	
129-474928	75.7142	-143.8235	1.2	0.0													
129-495434																	









DAY	LAT	CAMP CARIBOU LONG	EIV	EIV	LAT	CAMP BLOF LONG	EIV	EIV	LAT	CAMP SNOWHIRE LONG	EIV	EIV	LAT	CAMP BIG HEAR LONG	EIV	EIV
130.870819	75.7180	-141.7421	-6.3	-0.5	77.2796	-143.5126	-11.3	1.8	76.3012	-147.5585	-7.2	2.3	76.4726	-145.1626	-10.9	1.7
130.870872	75.7112	-141.7424	-6.6	-0.6	77.2773	-143.5108	-10.9	2.1	76.3003	-147.5572	-7.2	2.6				
130.870927	75.7166	-141.7426	-6.8	-0.8	77.2759	-143.5094	-10.3	2.4	76.2997	-147.5563	-7.1	2.7	76.4704	-145.1612	-10.0	1.6
130.870971																
130.871024	75.7156	-141.7412	-7.1	-1.2	77.2735	-143.5064	-9.4	2.9	76.2987	-147.5546	-6.9	3.1	76.4691	-145.1602	-9.1	1.7
130.871077	75.7139	-141.7447	-7.4	-1.6					76.2972	-147.5513	-5.7	3.2	76.4671	-145.1585	-7.3	1.6
130.871130	75.7124	-141.7461	-7.6	-1.4	77.2716	-143.5034	-9.1	3.9	76.2962	-147.5487	-4.4	2.8				
130.871183					77.2704	-143.5006	-9.1	5.6					76.4649	-145.1560	-5.9	2.4
130.871236	75.7113	-141.7465	-7.6	-0.2					76.2956	-147.5472	-3.8	2.7				
130.871289																
130.871342	75.7095	-141.7457	-7.1	1.6	77.2682	-143.4926	-7.7	8.1					76.4635	-145.1526	-5.2	3.7
130.871395	75.7081	-141.7444	-6.5	1.1	77.2674	-143.4881	-6.4	8.0					76.4626	-145.1494	-4.7	3.7
130.871448	75.7073	-141.7442	-6.2	-0.2	77.2669	-143.4854	-5.5	7.4								
130.871501	75.7069	-141.7443	-6.0	-1.0	77.2663	-143.4816	-4.2	5.9								
130.871554	75.7058	-141.7455	-5.3	-1.7	77.2653	-143.4763	-4.2	3.9					76.4609	-145.1432	-3.8	4.5
130.871607	75.7052	-141.7462	-4.8	-1.1	77.2647	-143.4741	-5.6	4.0					76.4602	-145.1389	-3.8	5.4
130.871660					77.2643	-143.4727	-6.6	4.0					76.4597	-145.1362	-4.3	5.4
130.871713	75.7044	-141.7466	-3.9	0.1	77.2634	-143.4706	-7.9	3.9					76.4594	-145.1347	-4.6	5.3
130.871766					77.2631	-143.4700	-8.3	3.8								
130.871819	75.7031	-141.7444	-3.2	2.8	77.2599	-143.4639	-9.1	4.5					76.4573	-145.1264	-5.7	4.4
130.871872	75.7028	-141.7414	-3.3	3.3	77.2592	-143.4621	-8.7	4.9					76.4567	-145.1245	-5.7	3.9
130.871925	75.7025	-141.7419	-3.6	3.6	77.2583	-143.4599	-6.4	4.9					76.4564	-145.1239	-5.8	3.7
130.871978																
130.872031	75.7022	-141.7410	-3.9	3.7	77.2580	-143.4589	-8.2	4.8					76.4551	-145.1209	-5.7	2.6
130.872084	75.7014	-141.7381	-4.2	3.1												
130.872137	75.7009	-141.7467	-4.6	2.5	77.2551	-143.4521	-7.1	3.8								
130.872190					77.2547	-143.4507	-6.9	3.6								
130.872243	75.7005	-141.7459	-3.7	2.3												
130.872296	75.7002	-141.7451	-3.3	2.2	77.2541	-143.4492	-6.7	3.6					76.4539	-145.1186	-5.6	2.8
130.872349																
130.872402																

DAY	LAT	CAMP CARBON LONG.	FTV	LAT	CAMP HIDE LONG	FOX NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	FTV	LAT	CAMP HIG LONG	NIV	EIV
131.284439															
131.284546															
131.291077															
131.291245															
131.319000															
131.319138															
131.319199															
131.319275															
131.335144															
131.335342															
131.335403															
131.346817															
131.357346															
131.357468															
131.357468															
131.357544															
131.392181															
131.392212															
131.392288															
131.392410															
131.408310															
131.408417															
131.408554															
131.419968															
131.420151															
131.420227															
131.420227															
131.430618															
131.430771															
131.430817															
131.430862															
131.430865															
131.465525															
131.465532															
131.465542															
131.481262															
131.481262															
131.481430															
131.493027															
131.493164															
131.493195															
131.493286															
131.504512															
131.504532															
131.514206															
131.538406															
131.538559															
131.538605															
131.538620															
131.538620															
131.538626															
131.565857															
131.565903															
131.566055															
131.578705															
131.578781															
131.578842															
131.612010															
131.612183															
131.612213															
131.621235															
131.622380															
131.622594															
131.622640															
131.630535															
131.630672															







DAY	LAT	CAMP CARLEIGH LONG	ELEV	LAT	CAMP HIDE LONG	ELEV	LAT	CAMP SNOWHIRE LONG	ELEV	LAT	CAMP BIG HORN LONG	ELEV
132.202309	75.6616	-143.8230	-3.1	-2.2	76.2553	-147.5770	-4.1	-2.9	76.4013	-145.1164	-3.5	-0.6
132.393051	75.6613	-143.8239	-1.2	-2.7	76.2548	-147.5783	-4.4	-3.0	76.4030	-145.1167	-3.8	-0.8
132.393173	75.6610	-143.8250	-3.5	-2.7	77.1926	-143.3881	-6.2	1.7	76.4021	-145.1173	-4.8	-0.5
132.406052	75.6602	-143.8271	-4.3	-2.5	77.1913	-143.3865	-6.9	1.7	76.4011	-145.1174	-5.6	0.3
132.406219	75.6597	-143.8281	-4.7	-2.3	77.1905	-143.3857	-7.2	1.7	76.4006	-145.1172	-5.8	0.8
132.406326	75.6594	-143.8288	-4.9	-2.2	77.1900	-143.3851	-7.4	1.7	76.3989	-145.1158	-5.8	1.3
132.431808	75.6589	-143.8296	-5.1	-2.1	77.1870	-143.3839	-8.1	2.0	76.3978	-145.1150	-5.9	0.7
132.431885	75.6584	-143.8304	-5.4	-2.2	77.1861	-143.3810	-8.1	2.0	76.3966	-145.1148	-6.3	-0.3
132.432007	75.6573	-143.8321	-6.1	-2.2	77.1855	-143.3804	-8.0	1.9	76.3954	-145.1153	-6.8	-0.9
132.445409	75.6566	-143.8330	-6.5	-2.1	77.1838	-143.3787	-7.9	1.6	76.3942	-145.1161	-7.1	-1.1
132.446030	75.6561	-143.8336	-6.7	-1.9	77.1824	-143.3776	-8.1	1.2	76.3925	-145.1172	-7.6	-1.3
132.446226	75.6554	-143.8346	-7.0	-1.5	77.1815	-143.3771	-8.1	0.9	76.3898	-145.1193	-7.6	-1.6
132.455211	75.6546	-143.8349	-7.2	-1.0	77.1810	-143.3768	-8.5	0.8	76.3890	-145.1201	-7.4	-1.8
132.455439	75.6534	-143.8353	-6.8	-0.4	77.1789	-143.3762	-9.2	0.5	76.3877	-145.1215	-7.5	-1.9
132.467575	75.6527	-143.8355	-6.1	-0.4	77.1763	-143.3757	-9.5	0.3	76.2387	-147.6031	-5.6	-4.1
132.467621	75.6522	-143.8357	-5.8	-0.6	77.1757	-143.3756	-9.5	0.3				
132.467789	75.6516	-143.8360	-5.0	-1.1								
132.480255	75.6511	-143.8367	-4.3	-1.8								
132.480526	75.6500	-143.8392	-4.4	-2.5								
132.504852	75.6497	-143.8398	-4.8	-2.4								
132.504950	75.6491	-143.8409	-5.4	-2.5								
132.505020	75.6483	-143.8424	-6.2	-3.0								
132.505081	75.6472	-143.8446	-7.0	-1.9								
132.518845												
132.519104												
132.528122												
132.528214												
132.541809												
132.555094												
132.555176												
132.555389												
132.578230												
132.578461												
132.578537												
132.591919												
132.592113												
132.600845												
132.600891												
132.600967												
132.601059												
132.615294												
132.619025												
132.630371												
132.630438												
132.630493												
132.630630												
132.665375												
132.665573												
132.665680												
132.671650												
132.671782												
132.671883												
132.671958												
132.688019												
132.688059												
132.706274												
132.706318												
132.726716												
132.726857												

DAY	LAT	CAMP CARBIDE LONG	NIV	EIV	LAT	CAMP BLUE LONG	NIV	EIV	LAT	CAMP SMOOTHER LONG	NIV	EIV	LAT	CAMP HIG HEAN LONG	NIV	EIV
132-726013					77.1718	-143.3754	-9.8	-0.1	76.2378	-147.6060	-5.5	-4.8	76.3867	-145.1225	-8.0	-1.8
132-727037					77.1702	-143.3754	-10.1	0.0								
132-747009					77.1692	-143.3754	-10.4	0.2								
132-760269																
132-760406																
132-760529																
132-769558																
132-781708																
132-781799					77.1674	-143.3751	-10.7	0.5								
132-781937																
132-801880																
132-801941					75.6419	-143.3748	-11.1	0.2								
132-801987																
132-802170																
132-814133					77.1657	-143.3748	-11.1	0.2	76.2345	-147.6162	-7.2	-4.6	76.3817	-145.1261	-8.9	-1.4
132-814148																
132-814407					77.1646	-143.3748	-11.3	-0.4								
132-832456					77.1630	-143.3753	-11.6	-1.2								
132-832504																
132-832550																
132-832657																
132-845596																
132-845627																
132-857025																
132-857300					77.1618	-143.3759	-11.7	-1.5	76.2334	-147.6191	-7.8	-5.0	76.3796	-145.1277	-8.8	-1.9
132-877396					77.1608	-143.3766	-11.8	-1.7					76.3787	-145.1286	-8.7	-2.1
132-877531																
132-877670																
132-904633					77.1588	-143.3778	-12.1	-1.7	76.2306	-147.6273	-8.3	-6.3	76.3766	-145.1311	-8.8	-3.0
132-904663					77.1562	-143.3795	-12.6	-1.8					76.3746	-145.1342	-9.3	-4.0
132-904739																
132-920896					77.1546	-143.3806	-12.7	-1.9	76.2289	-147.6330	-7.9	-6.4				
132-920914													76.2279	-147.6362	-7.7	-5.9
132-920944																
132-921143																
132-931931																
132-932098																
132-953079																
132-953217																
132-953247																
132-953319					77.1514	-143.3827	-13.4	-1.9	76.2252	-147.6440	-8.6	-5.7	76.3709	-145.1417	-10.4	-5.3
132-964752																
132-964874																
132-964951					77.1501	-143.3834	-13.8	-1.9								
132-976822																
132-976990					77.1488	-143.3842	-14.2	-2.0	76.2243	-147.6463	-9.2	-6.3	76.3690	-145.1460	-10.8	-6.0
132-977051																
132-977066																
133-028625					77.1431	-143.3879	-13.7	-2.1	76.2203	-147.6576	-10.2	-6.2	76.3646	-145.1569	-10.8	-6.5
133-028625																
133-028687																
133-040284					77.1419	-143.3888	-13.2	-2.2	76.2194	-147.6598	-10.0	-5.6				
133-040359																
133-049750																
133-049759																
133-049966					77.1409	-143.3895	-12.8	-2.3	76.2187	-147.6615	-9.9	-5.0	76.3628	-145.1613	-10.8	-6.2
133-079616					77.1380	-143.3925	-12.2	-1.7								
133-079800																
133-103561					77.1357	-143.3960	-12.1	-4.6	76.2164	-147.6657	-9.1	-4.0				
133-103683																
133-103699																
133-115446					76.2148	-147.6687	-8.5	-3.7								
133-115479																
133-123001					77.1346	-143.3979	-12.0	-4.6	76.2140	-147.6701	-8.5	-3.6	76.3582	-145.1703	-11.3	-3.7
133-143600																
133-143764					76.2135	-147.6710	-8.5	-3.6								
133-143906																
133-151168					77.1320	-143.4027	-11.7	-5.3	76.2121	-147.6716	-8.6	-4.3	76.3546	-145.1751	-10.9	-4.7
									76.2115	-147.6750	-8.7	-5.0				











DAY	LAT	CAMP CARIBOU LONG	EIV	LAT	CAMP BLUE LONG	EIV	LAT	CAMP SNOWBIRD LONG	EIV	LAT	CAMP BIG BEAR LONG	EIV
135-232544	75.4868	-143.7912	-8.5	5.0	76.9949	-143.1030	-10.1	4.5	76.1020	-147.4344	-9.3	4.4
135-232605	75.4856	-143.7884	-7.8	4.5	76.9934	-143.1002	-10.1	4.4	76.1002	-147.4315	-8.1	2.6
135-232773	75.4852	-143.7874	-7.4	4.3	76.9928	-143.0983	-7.4	2.8	76.0987	-147.4308	-7.7	2.0
135-251389	75.4832	-143.7831	-5.9	3.1	76.9856	-143.0859	-7.0	2.4	76.0981	-147.4297	-7.0	0.9
135-251419	75.4828	-143.7822	-5.7	2.8	76.9850	-143.0850	-7.2	2.6	76.0975	-147.4294	-7.0	1.0
135-251587	75.4819	-143.7806	-5.2	2.3	76.9837	-143.0829	-7.8	3.2	76.0964	-147.4287	-7.0	1.2
135-251587	75.4814	-143.7797	-4.9	2.1	76.9830	-143.0815	-8.1	3.6	76.0941	-147.4269	-6.7	1.2
135-251587	75.4803	-143.7777	-4.7	2.6	76.9810	-143.0774	-8.8	4.4	76.0925	-147.4257	-6.2	1.1
135-251587	75.4799	-143.7768	-4.6	3.1	76.9787	-143.0720	-9.2	5.3	76.0907	-147.4240	-5.6	1.6
135-251587	75.4791	-143.7744	-4.4	4.0	76.9779	-143.0699	-9.3	5.7	76.0892	-147.4219	-5.7	2.3
135-251587	75.4787	-143.7728	-4.3	4.4	76.9749	-143.0618	-9.5	4.9	76.0887	-147.4211	-5.9	2.7
135-251587	75.4778	-143.7688	-4.0	4.5	76.9733	-143.0517	-6.5	5.6	76.0873	-147.4162	-6.7	3.0
135-251587	75.4775	-143.7673	-4.0	4.2	76.9716	-143.0464	-7.2	5.1	76.0866	-147.4171	-6.9	2.9
135-251587	75.4767	-143.7669	-5.7	5.3	76.9700	-143.0552	-10.5	1.4	76.0849	-147.4144	-7.4	2.5
135-251587	75.4762	-143.7643	-4.3	4.2	76.9690	-143.0547	-11.1	0.9	76.0830	-147.4123	-7.8	1.7
135-251587	75.4764	-143.7632	-4.5	4.3	76.9680	-143.0544	-11.7	0.7	76.0823	-147.4117	-8.1	1.2
135-251587	75.4764	-143.7632	-4.5	4.3	76.9680	-143.0544	-11.7	0.7	76.0804	-147.4111	-9.1	0.4
135-251587	75.4764	-143.7632	-4.5	4.3	76.9680	-143.0544	-11.7	0.7	76.0777	-147.4116	-10.4	-1.1
135-251587	75.4764	-143.7632	-4.5	4.3	76.9680	-143.0544	-11.7	0.7	76.0766	-147.4122	-10.3	-1.6
135-251587	75.4764	-143.7632	-4.5	4.3	76.9680	-143.0544	-11.7	0.7	76.2064	-144.8964	-8.0	1.2
135-251587	75.4764	-143.7632	-4.5	4.3	76.9680	-143.0544	-11.7	0.7	76.2044	-144.8964	-9.5	-1.3







DAY	LAT	CAMP CARIBOU LONG.	ELV	LAT	CAMP BLUE LONG	FOX MIV	ELV	LAT	CAMP SNOWBIRD LONG	ELV	LAT	CAMP BIG HORN LONG	ELV
137.452122	75.4865	-141.9045	9.8-10.1	76.9736	-143.1673	6.7	-8.1	76.2198	-145.0275	8.8-10.7	76.2198	-145.0275	8.8-10.7
137.452183								76.2417	-145.0370	9.1-10.3	76.2417	-145.0370	9.1-10.3
137.452505				76.9751	-143.1748	6.7	-7.5	76.1371	-147.5328	8.8 -9.3	76.1371	-147.5328	8.8 -9.3
137.452556				76.9775	-143.1864	7.1	-7.0	76.1401	-147.5478	8.8-11.7	76.1401	-147.5478	8.8-11.7
137.452566													
137.452571				76.9791	-143.1924	7.1	-5.2	76.1425	-147.5606	10.2-13.0	76.1425	-147.5606	10.2-13.0
137.452573								76.1454	-147.5758	10.2-13.8	76.1454	-147.5758	10.2-13.8
137.452574	75.4969	-143.9449	8.9-10.5	76.9811	-143.1981	5.8	-4.0				76.2504	-145.0713	9.3 -8.3
137.452575											76.2508	-145.0730	9.0 -8.5
137.452576				76.9817	-143.2001	4.9	-4.3	76.1464	-147.5818	9.1-13.7	76.2513	-145.0751	8.7 -8.8
137.452577								76.1479	-147.5921	8.1-11.5			
137.452578	75.5016	-143.9718	6.7-12.1	76.9834	-143.2123	2.7	-8.2				76.2549	-145.0953	6.4-11.5
137.452579				76.9837	-143.2166	2.7	-9.7				76.2556	-145.1007	5.9-12.4
137.452580	75.5023	-143.9771	5.9-12.0					76.1497	-147.6139	3.2-11.0	76.2564	-145.1092	5.2-14.0
137.452581	75.5032	-143.9844	4.9-12.1	76.9841	-143.2241	2.7-12.3		76.1516	-147.6385	4.7-15.2	76.2582	-145.1369	2.9-14.7
137.452582				76.9852	-143.2501	2.5-11.9					76.2586	-145.1440	2.3-13.2
137.452583				76.9855	-143.2558	2.5 -8.9					76.2593	-145.1606	2.9-11.9
137.452584				76.9865	-143.2649	3.8 -5.5							
137.452585	75.5049	-144.0059	3.7-12.6					76.1536	-147.6694	3.3-16.0			
137.452586				76.9871	-143.2685	4.5 -7.0					76.2598	-145.1673	4.1-13.1
137.452587													
137.452588				76.9876	-143.2724	4.8 -8.9		76.1543	-147.6844	2.8-17.2			
137.452589				76.9878	-143.2747	4.8 -9.9							
137.452590				76.9893	-143.2907	4.1-12.4					76.2623	-145.1925	7.6-13.5
137.452591				76.9897	-143.2963	3.7-12.1		76.1557	-147.7180	3.4-15.0			
137.452592													
137.452593	75.5116	-144.0807	6.8-17.1								76.2635	-145.2007	8.5-12.7
137.452594				76.9901	-143.3021	3.2-11.4					76.2645	-145.2064	8.9-12.5
137.452595				76.9902	-143.3051	3.6-10.9							
137.452596													
137.452597				76.9909	-143.3154	3.0 -8.3		76.1572	-147.7387	3.9-10.4			
137.452598								76.1575	-147.7416	3.8-10.4			
137.452599	75.5142	-144.1035	7.0-11.0	76.9915	-143.3208	3.5 -6.7					76.2677	-145.2257	8.1-12.6
137.452600													
137.452601	75.5148	-144.1083	6.9-11.6					76.1579	-147.7459	3.8-10.9			
137.452602													
137.452603				76.9921	-143.3259	3.6 -6.5							

















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LAMONT-DOHERTY GEOLOGICAL OBSERVATORY PALISADES N Y

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UPDATED POSITION AND ICE VELOCITY FOR THE ARCTIC ICE DYNAMICS J--ETC(U)

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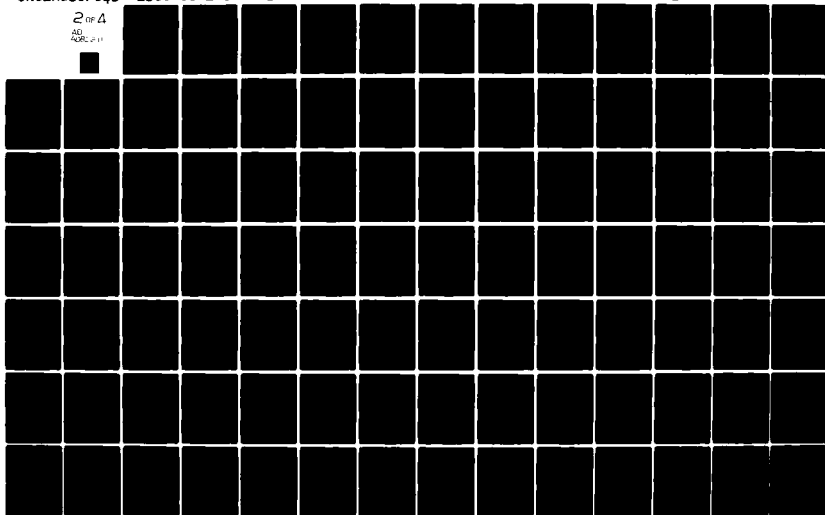
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DAY	LAT	CAMP CARIBOU LONG	WIV	EIV	LAT	CAMP BLUE FOX LONG	WIV	EIV	LAT	CAMP SHOMBINU LONG	WIV	EIV	LAT	CAMP MIE LONG	WIV	EIV
143-933014	75.4866	-144.5058	1.5	0.7	76.9385	-143.2153	0.5	1.7	76.1465	-147.9757	2.8	2.4	76.2275	-145.2721	2.1	3.0
143-933015									76.1478	-147.9740	3.2	2.2	76.2278	-145.2705	2.2	2.3
143-933016	75.4868	-144.5056	1.5	0.1					76.1475	-147.9729	3.3	1.8				
143-933017									76.1477	-147.9724	3.3	1.6	76.2280	-145.2700	2.2	1.8
143-933018	75.4869	-144.5056	1.5	-0.2					76.1480	-147.9719	3.3	1.3				
143-933019	75.4871	-144.5057	1.5	-0.4												
143-933020	75.4872	-144.5059	1.5	-0.5					76.1489	-147.9707	2.9	0.6	76.2287	-145.2689	1.5	-0.2
143-933021	75.4877	-144.5061	1.4	-0.2					76.1493	-147.9704	2.5	0.5	76.2289	-145.2691	1.2	-0.4
143-933022					76.9392	-143.2140	2.0	1.5	76.1495	-147.9703	2.4	0.5				
143-933023	75.4878	-144.5064	1.4	-0.1									76.2290	-145.2692	1.1	-0.2
143-933024	75.4879	-144.5064	1.5	0.1	76.9400	-143.2097	1.7	3.0	76.1513	-147.9666	2.9	1.7	76.2291	-145.2692	1.1	0.2
143-933025					76.9401	-143.2082	1.0	2.9					76.2296	-145.2673	2.0	2.1
143-933026	75.4886	-144.5054	1.6	1.2					76.1508	-147.9679	2.6	1.7				
143-933027	75.4887	-144.5049	1.7	1.4					76.1513	-147.9666	2.9	1.7	76.2302	-145.2649	2.3	2.0
143-933028	75.4890	-144.5040	1.7	1.3	76.9401	-143.2028	0.5	2.7					76.2307	-145.2636	2.1	1.2
143-933029									76.1518	-147.9656	3.0	0.8				
143-933030	75.4893	-144.5034	1.8	0.0	76.9403	-143.2015	1.1	2.5	76.1522	-147.9654	3.0	0.0	76.2309	-145.2632	1.9	0.7
143-933031	75.4896	-144.5036	1.9	-0.9					76.1525	-147.9655	3.1	-0.7	76.2311	-145.2630	1.9	0.3
143-933032					76.9405	-143.2005	1.8	2.0					76.2312	-145.2629	1.8	0.0
143-933033	75.4898	-144.5041	2.1	-1.6					76.1528	-147.9659	3.1	-1.2				
143-933034	75.4899	-144.5047	2.2	-2.1	76.9410	-143.1999	3.2	-1.0	76.1530	-147.9663	3.2	-1.6	76.2314	-145.2630	1.8	-0.3
143-933035																
143-933036	75.4906	-144.5074	2.7	-2.3	76.9410	-143.2005	3.0	-1.4	76.1536	-147.9678	3.5	-2.0				
143-933037									76.1541	-147.9687	3.7	-1.9	76.2320	-145.2637	2.3	-0.8
143-933038	75.4912	-144.5090	3.1	-1.7	76.9424	-143.2017	2.8	-1.5	76.1544	-147.9695	3.9	-1.9	76.2322	-145.2641	2.7	-0.9
143-933039													76.2325	-145.2644	2.9	-0.9
143-933040	75.4915	-144.5095	3.1	-1.8					76.1548	-147.9702	4.0	-1.9				
143-933041									76.1551	-147.9709	4.1	-2.0	76.2327	-145.2647	3.1	-0.9
143-933042	75.4918	-144.5103	3.2	-2.1												
143-933043																

DAY	LAT	CAMP CARIBOU LONG	EIV	LAT	CAMP BLUE LONG	FOX NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG BEAR LONG	NIV	EIV
145-101559	75.4924	-144.5119	3.5 -2.7	76.9426	-143.2024	2.7	-1.4	76.1559	-147.9725	4.2	-2.0	76.2333	-145.2654	3.5	-0.7
145-103048	75.4928	-144.5132	3.8 -2.9	76.9437	-143.2038	2.9	0.1	76.1564	-147.9734	4.3	-1.8	76.2338	-145.2656	3.8	-0.4
145-103075	75.4932	-144.5144	4.0 -2.9	76.9440	-143.2037	3.0	0.4	76.1568	-147.9741	4.4	-1.6	76.2341	-145.2657	3.9	-0.2
145-103091	75.4935	-144.5152	4.1 -2.7	76.9443	-143.2034	3.1	0.9	76.1572	-147.9746	4.4	-1.6	76.2345	-145.2658	4.0	-0.1
145-103112	75.4940	-144.5164	4.1 -2.5	76.9448	-143.2025	3.1	1.5	76.1577	-147.9753	4.5	-1.5	76.2349	-145.2658	4.1	-0.1
145-103126	75.4955	-144.5196	4.1 -1.7	76.9455	-143.2010	3.4	1.7	76.1594	-147.9775	4.4	-1.1	76.2356	-145.2659	4.1	-0.2
145-103141	75.4958	-144.5201	4.1 -1.5	76.9458	-143.2004	3.6	1.5	76.1597	-147.9778	4.4	-0.9	76.2360	-145.2661	4.1	0.0
145-103155	75.4963	-144.5207	4.1 -1.2	76.9474	-143.1989	4.5	-0.1	76.1602	-147.9782	4.3	-0.6	76.2373	-145.2661	4.2	-0.1
145-103170	75.4975	-144.5217	4.0 -0.7	76.9482	-143.1993	4.4	-0.7	76.1609	-147.9785	4.2	-0.4	76.2385	-145.2665	4.4	-0.7
145-103184	75.4978	-144.5220	3.9 -0.9	76.9487	-143.1996	4.1	-0.6	76.1614	-147.9788	4.2	-0.6	76.2389	-145.2668	4.5	-1.0
145-103198	75.4981	-144.5223	3.9 -1.1	76.9493	-143.2000	3.6	-0.4	76.1621	-147.9794	4.2	-1.1	76.2393	-145.2672	4.5	-1.1
145-103212	75.4986	-144.5229	3.9 -1.4	76.9498	-143.2001	3.1	0.1	76.1626	-147.9800	4.2	-1.5	76.2398	-145.2677	4.4	-1.0
145-103226	75.4998	-144.5253	3.7 -2.7	76.9500	-143.2000	3.0	0.5	76.1634	-147.9813	4.1	-1.8	76.2410	-145.2685	3.9	-0.2
145-103240	75.5000	-144.5260	3.6 -3.0	76.9500	-143.2000	3.0	0.5	76.1641	-147.9826	3.9	-1.4	76.2413	-145.2685	3.8	0.0
145-103254	75.5003	-144.5271	3.5 -3.4	76.9502	-143.1997	2.7	1.3	76.1645	-147.9830	3.9	-1.1	76.2416	-145.2684	3.5	0.4
145-103268	75.5007	-144.5289	3.2 -4.1	76.9505	-143.1988	2.4	2.2	76.1649	-147.9835	3.9	-0.8	76.2420	-145.2681	3.2	0.8





DAY	LAT	CAMP CARINUM LONG	NIV	EIV	LAT	CAMP BLUE LONG	FOX	NIV	EIV	LAT	CAMP SNOWSHOE LONG	NIV	EIV	LAT	CAMP BIG LONG	BEAN	NIV	EIV
46.248615	75.5063	-144.7417	-6.1	-9.1	76.9688	-143.3614	-0.8	-8.7	76.1780	-148.2022	-4.1	-8.8	76.2526	-145.4711	-4.1	-10.7		
46.248616	75.5052	-144.7984	-6.8	-11.0	76.9686	-143.3682	-1.2	-9.6	76.1768	-148.2124	-4.5	-10.5	76.2514	-145.4829	-4.4	-11.3		
46.248617	75.5049	-144.8001	-6.9	-11.6	76.9681	-143.3860	-0.9	-10.4	76.1761	-148.2203	-4.9	-12.3						
46.248618	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1753	-148.2283	-5.3	-13.8						
46.248619	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1740	-148.2431	-4.9	-13.6						
46.248620	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1730	-148.2516	-4.1	-9.2						
46.248621	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1727	-148.2561	-3.9	-6.8						
46.248622	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1717	-148.2615	-3.9	-4.6						
46.248623	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1714	-148.2628	-4.0	-5.6						
46.248624	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1707	-148.2675	-4.3	-8.7						
46.248625	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1692	-148.2839	-3.8	-12.9						
46.248626	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1690	-148.2881	-3.5	-13.0						
46.248627	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1685	-148.2958	-2.9	-13.1						
46.248628	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1676	-148.3149	-2.2	-12.4						
46.248629	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1674	-148.3192	-2.2	-12.1						
46.248630	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1671	-148.3259	-2.2	-11.2						
46.248631	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1668	-148.3321	-2.3	-9.8						
46.248632	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1663	-148.3400	-2.4	-7.8						
46.248633	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1661	-148.3426	-2.3	-7.3						
46.248634	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1658	-148.3465	-2.0	-7.2						
46.248635	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1653	-148.3632	-0.6	-11.7						
46.248636	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1647	-148.3632	-0.6	-9.9						
46.248637	75.5024	-144.8186	-6.3	-11.1	76.9680	-143.3947	-0.5	-10.3	76.1647	-148.3632	-0.6	-11.0						









DAY	LAT	CAMP CARLETON LONG	NIV	FIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG BEAR LONG	NIV	EIV
140.076509	75.5206	-145.1740	7.1-13.6													
140.097610	75.5218	-145.1727	7.0-13.2													
140.114467																
140.130456	75.5240	-145.1869	7.1-12.7						76.1964	-148.7998	7.0-14.6					
140.149946	75.5246	-145.1913	7.3-12.7						76.1977	-148.8104	7.1-13.1					
140.169979	75.5252	-145.1972	7.3-12.9						76.1983	-148.8153	6.9-12.9					
140.189866									76.1989	-148.8194	6.8-12.8					
140.209938	75.5259	-145.4021	7.4-13.3						76.2003	-148.8314	6.4-13.2			76.2669	-146.0574	5.6-12.1
140.229958	75.5269	-145.4090	7.6-13.7						76.2015	-148.8421	6.2-13.6					
140.249977									76.2020	-148.8464	6.3-13.6					
140.269997	75.5283	-145.4195	7.6-13.6						76.2026	-148.8513	6.3-13.6			76.2691	-146.0787	5.4-12.3
140.289997	75.5296	-145.4280	7.6-12.8													
140.309997	75.5303	-145.4325	7.6-12.2						76.2701	-146.0871	5.7-12.2					
140.329997	75.5312	-145.4384	7.8-11.4						76.2714	-146.0980	6.4-12.1					
140.349997	75.5328	-145.4471	8.1-10.8													
140.369997	75.5333	-145.4498	8.1-10.7						76.2039	-148.8635	6.7-13.3					
140.389997																
140.409997									76.2057	-148.8776	6.8-12.3					
140.429997									76.2064	-148.8826	6.6-11.9					
140.449997																
140.469997									76.2737	-146.1159	5.8-11.2					
140.489997	75.5342	-145.4541	8.0-10.6													
140.509997	75.5348	-145.4574	7.9-10.5													
140.529997	75.5358	-145.4625	7.8-10.3													
140.549997																
140.569997									76.2077	-148.8925	6.2-11.5			76.2748	-146.1250	4.9-10.1
140.589997	75.5373	-145.4707	7.7-10.4						76.2090	-148.9022	6.3-11.7			76.2758	-146.1329	5.2-8.9
140.609997	75.5378	-145.4733	7.7-10.4													
140.629997									76.2761	-146.1352	5.5-8.6					
140.649997																
140.669997									76.2768	-146.1392	5.8-8.1					
140.689997	75.5387	-145.4780	7.7-10.5													
140.709997	75.5392	-145.4807	7.6-10.6						76.2094	-148.9052	6.3-11.8			76.2779	-146.1454	5.9-7.7
140.729997	75.5401	-145.4860	7.4-10.7						76.2101	-148.9103	6.4-12.0					
140.749997																
140.769997																
140.789997									76.2113	-148.9205	6.2-12.3			76.2790	-146.1519	5.3-7.8
140.809997	75.5416	-145.4944	7.2-9.9													
140.829997	75.5421	-145.4969	7.2-9.4						76.2125	-148.9307	5.8-11.8					
140.849997									76.2129	-148.9339	5.7-11.4					
140.869997									76.2135	-148.9393	5.4-10.7			76.2800	-146.1582	4.8-8.3
140.889997	75.5430	-145.5011	7.2-8.5													
140.909997	75.5443	-145.5076	7.5-7.9						76.2145	-148.9472	5.4-10.1			76.2808	-146.1646	4.8-8.6
140.929997																
140.949997																
140.969997																
140.989997																
141.009997																

DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP HUP LONG	FOX	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG LONG	NIV	EIV
75.5464	-145.5162	7.9	-9.4	76.2156	-148.9557	5.6	-10.9	76.2818	-146.1720	5.3	-9.1						
75.5473	-145.5208	7.8	-10.3	76.2161	-148.9593	5.5	-11.6										
75.5481	-145.5202	7.6	-10.5	76.2168	-148.9665	5.1	-12.3										
75.5502	-145.5160	7.6	-10.0	76.2176	-148.9743	4.6	-12.0										
75.5509	-145.5197	7.6	-9.9	76.2184	-148.9835	4.6	-11.3										
75.5517	-145.5438	7.6	-9.7	76.2189	-148.9879	5.1	-11.5										
75.5520	-145.5456	7.9	-9.3	76.2195	-148.9930	5.8	-12.1										
75.5545	-145.5575	7.9	-9.3	76.2220	-149.0131	7.5	-13.3										
75.5554	-145.5617	8.0	-9.5	76.2228	-149.0192	7.5	-13.0										
75.5561	-145.5649	8.0	-9.7	76.2235	-149.0237	7.4	-12.8										
75.5577	-145.5728	8.0	-9.8	76.2249	-149.0340	7.0	-11.8										
75.5591	-145.5791	8.2	-8.4	76.2261	-149.0421	7.0	-10.5										
75.5602	-145.5831	8.4	-6.9	76.2271	-149.0475	7.3	-9.7										
75.5607	-145.5846	8.5	-6.3	76.2275	-149.0498	7.4	-9.5										
75.5613	-145.5864	8.7	-5.7	76.2281	-149.0529	7.6	-9.4										
75.5626	-145.5897	8.7	-5.6	76.2292	-149.0586	7.8	-9.7										
75.5640	-145.5937	8.6	-7.4	76.2292	-149.0586	7.8	-9.7										
75.5650	-145.5953	8.8	-11.0	76.2292	-149.0586	7.8	-9.7										
75.5690	-145.6171	8.8	-11.0	76.2292	-149.0586	7.8	-9.7										
75.5710	-145.6347	9.3	-8.9	76.2292	-149.0586	7.8	-9.7										



DAY	LAT	CAMP CARINHU LONG	CAMP CARINHU NIV	EIV	LAT	CAMP HIDE LONG	CAMP HIDE NIV	EIV	LAT	CAMP SHOURIN LONG	CAMP SHOURIN NIV	EIV	LAT	CAMP HIG LONG	CAMP HIG NIV	EIV
149-020727	75.6021	-145.7662	5.8-10.7		77.0392	-144.3806	4.8-8.5		76.2656	-149.2714	6.5-7.9		76.3310	-146.4801	6.4-7.5	
149-047723					77.0400	-144.3871	5.1-9.2						76.3321	-146.4853	6.1-7.4	
149-047730					77.0409	-144.3939	5.3-9.3									
149-047743																
149-047758																
149-049055																
149-049208																
149-049218																
149-049310																
149-049325																
149-049342																
149-049357																
149-049412																
149-049427																
149-049442																
149-049457																
149-049472																
149-049487																
149-049502																
149-049517																
149-049532																
149-049547																
149-049562																
149-049577																
149-049592																
149-049607																
149-049622																
149-049637																
149-049652																
149-049667																
149-049682																
149-049697																
149-049712																
149-049727																
149-049742																
149-049757																
149-049772																
149-049787																
149-049802																
149-049817																
149-049832																
149-049847																
149-049862																
149-049877																
149-049892																
149-049907																
149-049922																
149-049937																
149-049952																
149-049967																
149-049982																
149-050000																





UAY	LAT	CAMP CAMPIDDD	LONG	NIV	EIV	LAT	CAMP BLUE FOX	LONG	NIV	EIV	LAT	CAMP SNOWBIRD	LONG	NIV	EIV	LAT	CAMP HIG MEAN	LONG	NIV	EIV
150-141319	75.6503	-146.0424	7.8	-1.1		77.0820	-144.6527	5.6	-6.3		76.3179	-149.5545	8.5	-8.3						
150-141507																				
150-150200	75.6511	-146.0488	7.7	-8.0		77.0827	-144.6560	5.3	-5.0		76.3191	-149.5591	8.5	-8.5						
150-150455	75.6521	-146.0507	7.6	-8.4		77.0849	-144.6635	4.8	-3.9		76.3202	-149.5638	8.5	-8.9						
150-174771						77.0851	-144.6645	4.8	-6.2		76.3240	-149.5800	8.8	-7.8						
150-174919	75.6564	-146.0885	6.5	-5.5		77.0855	-144.6661	4.8	-4.6		76.3251	-149.5840	8.9	-6.5						
150-175000	75.6581	-146.0713	5.8	-3.0		77.0869	-144.6725	4.2	-4.5		76.3278	-149.5905	8.6	-4.2						
150-181129						77.0874	-144.6750	3.6	-4.1		76.3289	-149.5927	8.2	-4.1						
150-181625	75.6590	-146.0748	5.5	-3.1		77.0876	-144.6761	3.4	-4.1		76.3294	-149.5938	7.9	-4.3						
150-181805						77.0879	-144.6776	3.0	-4.1		76.3311	-149.5984	7.1	-5.3						
150-181841	75.6598	-146.0770	5.0	-4.6		77.0883	-144.6801	2.7	-4.2		76.3322	-149.6020	6.9	-5.9						
150-181866																				
150-181917	75.6611	-146.0843	4.1	-7.1		77.0887	-144.6831	2.8	-3.8		76.3330	-149.6050	6.8	-6.0						
150-182009	75.6616	-146.0879	4.0	-7.2		77.0891	-144.6850	3.0	-3.2		76.3335	-149.6067	6.7	-6.0						
150-182276						77.0892	-144.6859	3.1	-2.9		76.3341	-149.6090	6.6	-6.0						
150-182452	75.6618	-146.0898	4.0	-7.1																
150-182511	75.6622	-146.0924	4.0	-6.8		77.0896	-144.6870	3.1	-2.5		76.3349	-149.6122	6.5	-5.7						
150-182556	75.6627	-146.0957	4.0	-5.8		77.0900	-144.6883	3.1	-2.2		76.3367	-149.6186	6.4	-5.3						
150-182585						77.0905	-144.6902	2.9	-3.3		76.3371	-149.6200	6.4	-5.4						
150-182605	75.6639	-146.1007	4.6	-3.3							76.3379	-149.6227	6.4	-5.6						
150-182624																				
150-182640	75.6648	-146.1030	5.0	-3.6		77.0913	-144.6974	2.9	-8.0		76.3397	-149.6296	6.7	-5.5						
150-182652	75.6654	-146.1049	5.0	-4.9		77.0916	-144.7021	3.4	-10.0		76.3404	-149.6319	7.1	-5.1						
150-182677	75.6663	-146.1091	5.1	-7.0		77.0923	-144.7103	4.6	-10.9		76.3427	-149.6379	7.9	-4.6						
150-182705						77.0928	-144.7151	5.6	-10.1		76.3442	-149.6416	8.1	-5.6						
150-182732	75.6671	-146.1139	5.3	-7.8																
150-182741																				
150-182757	75.6678	-146.1183	5.2	-7.9		77.0946	-144.7256	5.0	-6.7		76.3409	-149.6331	7.3	-4.8						
150-182841	75.6684	-146.1214	5.5	-7.1		77.0953	-144.7281	2.9	-2.1		76.3419	-149.6358	7.3	-4.5						
150-182847																				
150-182867	75.6694	-146.1263	5.5	-6.4																
150-182884	75.6699	-146.1285	5.3	-6.3		77.0955	-144.7289	2.1	-1.8		76.3449	-149.6440	8.0	-6.4						
150-182926											76.3466	-149.6502	8.1	-7.4						
150-182941																				

















DAY	LAT	CAMP CARLHOLD LONG	NIV	RIV	LAT	CAMP BLUE LONG	FOA NIV	RIV	LAT	CAMP SHUMBIRD LONG	NIV	RIV	LAT	CAMP BIG BEAR LONG	NIV	RIV
154-717789	75.7075	-146.9823	2.2	-8.0												
154-717957					77.1163	-145.4466	2.4	-5.6								
154-763870	75.7083	-146.9843	2.3	-7.9					76.4219	-150.3158	1.8	-5.2	76.4505	-147.5406	3.3	-6.1
154-763977									76.4227	-150.3433	3.4	-5.9				
154-764099									76.4233	-150.3474	4.4	-7.6				
154-764291					77.1166	-145.4503	2.2	-5.7								
154-764671																
154-764998	75.7086	-146.9890	2.6	-8.0												
154-765035	75.7088	-146.9912	2.6	-8.4					76.4236	-150.3498	4.6	-8.4	76.4521	-147.5537	3.1	-7.1
154-791672					77.1168	-145.4522	2.1	-6.1								
154-791824					77.1169	-145.4536	2.0	-6.5								
154-791870																
154-792007																
154-798676	75.7098	-146.9916	3.2	-9.2					76.4255	-150.3665	4.3	-10.9	76.4535	-147.5707	2.6	-9.3
154-816014					77.1175	-145.4651	1.6	-8.1								
154-842834					77.1177	-145.4693	1.6	-8.3								
154-842972									76.4259	-150.3719	4.0	-11.1	76.4538	-147.5753	2.5	-9.2
154-851124																
154-851327									76.4262	-150.3750	3.8	-11.2	76.4539	-147.5778	2.5	-9.1
154-851419																
154-851449																
154-851492	75.7104	-146.9928	3.3	-9.0												
154-852002	75.7106	-146.9921	3.3	-8.9												
154-852241																
154-852318																
154-852446					77.1178	-145.4718	1.6	-8.3								
154-872113	75.7108	-146.9943	3.1	-8.8												
154-874113					77.1179	-145.4740	1.7	-8.4								
154-903249	75.7116	-146.9938	3.0	-9.3												
154-903386					77.1184	-145.4840	2.2	-8.4								
154-903442																
154-911446	75.7118	-146.9968	3.0	-9.7												
154-911579					77.1186	-145.4870	2.5	-8.4								
154-912053					77.1189	-145.4909	2.8	-8.4								
154-912358	75.7121	-146.9912	3.2	-10.4												
154-913155																
154-948221	75.7126	-146.9921	3.4	-11.1												
154-980896	75.7135	-146.9976	3.9	-10.0												
154-981033																
154-981079					77.1200	-145.5044	3.2	-7.0								
154-981140																
154-993912																
155-016464																
155-016586	75.7145	-146.9974	3.2	-8.1					76.4304	-150.4135	3.8	-4.1	76.4578	-147.6183	3.0	-6.5
155-016647					77.1208	-145.5122	1.9	-6.0								
155-016708																
155-024902									76.4306	-150.4147	3.6	-5.2	76.4579	-147.6201	2.7	-6.5
155-024948									76.4308	-150.4162	3.5	-6.3				
155-032730	75.7152	-146.9973	2.1	-9.5												
155-054031																
155-054169									76.4314	-150.4217	3.4	-9.3	76.4585	-147.6267	2.2	-7.5
155-054194																
155-054337					77.1211	-145.5198	0.9	-5.8								
155-068924					77.1213	-145.5228	1.4	-5.8								
155-068924									76.4318	-150.4266	3.3	-10.7	76.4587	-147.6306	2.3	-8.3
155-069000	75.7155	-146.9981	2.1	-10.5												
155-069153					77.1214	-145.5249	1.8	-5.9								
155-079224																
155-079361	75.7157	-146.9985	2.2	-10.9												
155-079422																
155-091766									76.4320	-150.4304	3.3	-11.3	76.4589	-147.6335	2.4	-8.8
155-091888					76.4324	-150.4350	3.3	-11.5								
155-091995	75.7159	-146.9999	2.4	-11.2												
155-127777	75.7166	-147.0024	2.8	-11.1					76.4592	-147.6372	2.6	-9.1	76.4592	-147.6372	2.6	-9.1
155-127838																
155-127914					76.4332	-150.4481	3.0	-10.2								
									76.4599	-147.6484	2.7	-9.7				





DAY	LAT	CAMP CANTHUR LONG	NIV	FIV	LAT	CAMP BLUE LONG	FIX NIV	EIV	LAT	CAMP SHOWN LONG	NIV	EIV	LAT	CAMP BIG LONG	NIV	EIV
156-007767																
156-032684																
156-032761																
156-032822																
156-045898																
156-046082																
156-046127																
156-046188																
156-052826																
156-063491																
156-063704																
156-080994																
156-081100																
156-081131																
156-081299																
156-092113																
156-099365																
156-099472																
156-107513																
156-107544																
156-114125																
156-114232																
156-119263																
156-119370																
156-120067																
156-128235																
156-139872																
156-139924																
156-154984																
156-155075																
156-155258																
156-172455																
156-172623																
156-172714																
156-181684																
156-181839																
156-181970																
156-181976																
156-192215																
156-192215																
156-192276																
156-202629																
156-202682																
156-202728																
156-202759																
156-202942																
156-213379																
156-213547																
156-213623																
156-213654																
156-220462																
156-229660																
156-229660																
156-245544																
156-255341																
156-255508																
156-255585																
156-265366																
156-265372																
156-265503																
156-276723																
156-286419																
156-286880																
156-304314																
156-304320																
156-304345																
156-316604																
156-319710																
156-328568																
75-7220	-147.1256	0.4	-9.1													
75-7221	-147.1308	0.0	-7.9													
75-7220	-147.1344	-0.7	-7.3													
77-1193	-145.8149	-2.5	-7.5													
77-1189	-145.8193	-2.9	-6.5													
77-1187	-145.8211	-2.8	-6.0													
77-1185	-145.8233	-2.6	-5.3													
75-7217	-147.1431	-1.5	-7.6													
75-7216	-147.1453	-1.4	-8.0													
75-7214	-147.1483	-1.4	-8.4													
75-7213	-147.1523	-1.4	-8.9													
75-7211	-147.1573	-1.3	-9.2													
75-7210	-147.1600	-1.2	-9.2													
75-7209	-147.1630	-1.1	-9.1													
75-7208	-147.1660	-1.0	-8.9													
75-7208	-147.1689	-0.9	-8.6													
75-7206	-147.1711	-0.9	-8.2													
75-7205	-147.1736	-0.9	-7.9													
75-7204	-147.1761	-0.9	-7.6													
75-7202	-147.1784	-0.8	-7.3													
75-7201	-147.1817	-0.8	-7.9													
75-7200	-147.1852	-0.8	-7.7													
77-1141	-145.8671	-2.0	-9.1													





DAY	LAT	CAMP CARBON LONG	NIV	EIV	LAT	CAMP NINE FOX LONG	NIV	EIV	LAT	CAMP SHIMBIRD LONG	NIV	EIV	LAT	CAMP BIG REAR LONG	NIV	EIV
157.305308	75.7062	-147.5742	-2.8	-5.2	77.0834	-146.0728	-4.6	-5.6	76.4245	-151.0237	-2.9	-5.8	76.4481	-148.2056	-2.6	-5.2
157.305618					77.0827	-146.0775	-4.8	-7.1								
157.305928	75.7055	-147.5794	-2.8	-5.5					76.4240	-151.0279	-2.6	-6.3	76.4477	-148.2090	-2.4	-4.7
157.306238	75.7053	-147.5809	-2.8	-5.7					76.4234	-151.0346	-2.1	-6.4				
157.306548	75.7046	-147.5870	-2.9	-5.9					76.4233	-151.0363	-2.0	-6.2				
157.306858									76.4231	-151.0389	-1.9	-6.0				
157.307168	75.7044	-147.5882	-2.9	-5.8					76.4228	-151.0428	-1.9	-5.6				
157.307478	75.7037	-147.5936	-2.6	-4.3					76.4227	-151.0439	-1.9	-5.6				
157.307788	75.7034	-147.5953	-2.3	-3.4	77.0789	-146.1062	-3.4	-5.0	76.4223	-151.0483	-1.9	-4.4				
157.308098	75.7031	-147.5971	-2.1	-2.6	77.0785	-146.1085	-3.0	-3.8	76.4222	-151.0493	-1.8	-3.8				
157.308408	75.7025	-147.5995	-2.8	-2.3	77.0781	-146.1105	-2.7	-2.7					76.4456	-148.2290	-2.4	-5.8
157.308718	75.7019	-147.6012	-3.4	-2.5									76.4452	-148.2327	-2.2	-6.1
157.309028	75.7015	-147.6028	-3.6	-2.5	77.0773	-146.1132	-4.0	-2.4								
157.309338					77.0764	-146.1153	-5.9	-3.0	76.4218	-151.0525	-1.2	-2.5				
157.309648	75.7013	-147.6031	-3.5	-2.4					76.4217	-151.0531	-1.1	-2.5				
157.309958	75.7005	-147.6052	-3.5	-2.4	77.0755	-146.1173	-7.1	-3.5	76.4215	-151.0555	-0.9	-3.2				
157.310268									76.4214	-151.0582	-1.1	-3.9				
157.310578	75.6994	-147.6087	-3.7	-3.5	77.0736	-146.1221	-6.5	-4.6					76.4444	-148.2432	-1.5	-4.7
157.310888					77.0725	-146.1261	-5.1	-5.3	76.4212	-151.0604	-1.3	-3.6				
157.311198	75.6992	-147.6094	-3.8	-3.8					76.4208	-151.0639	-1.4	-2.8				
157.311508	75.6983	-147.6134	-4.2	-4.6	77.0719	-146.1293	-4.7	-5.7					76.4438	-148.2491	-1.9	-2.9
157.311818									76.4203	-151.0680	-2.0	-4.2				
157.312128	75.6970	-147.6188	-4.3	-4.1	77.0705	-146.1360	-5.8	-4.5	76.4196	-151.0742	-3.1	-5.9				
157.312438					77.0695	-146.1386	-6.5	-2.9								
157.312748									76.4190	-151.0789	-3.9	-6.1				
157.313058	75.6957	-147.6235	-4.4	-3.9	77.0686	-146.1400	-6.4	-1.7	76.4185	-151.0819	-4.3	-6.0				
157.313368									76.4172	-151.0890	-4.6	-5.7				
157.313678	75.6925	-147.6373	-4.0	-6.1	77.0661	-146.1462	-5.0	-7.6	76.4165	-151.0925	-4.5	-5.3				
157.313988					77.0640	-146.1692	-4.8	-12.8					76.4142	-151.1053	-3.5	-6.2
157.314298																
157.314608	75.6920	-147.6409	-1.6	-6.5					76.4137	-151.1094	-3.0	-7.2				
157.314918									76.4125	-151.1202	-2.2	-8.5				
157.315228																





LAT	CAMP CARIBOU LONG	WIV	FIV	LAT	CAMP HIDE FOX LONG	WIV	EIV	LAT	CAMP SNOWHIND LONG	WIV	FIV	LAT	CAMP HIG HEAR LONG	WIV	EIV
158.506927	75.6798	-147.7155	-3.8	77.0370	-146.2884	-4.7	-1.2	76.3990	-151.2194	-3.0	-2.1	76.4217	-148.4104	-3.3	-3.0
158.507034	75.6798	-147.7163	-3.3												
158.507202				77.0356	-146.2882	-4.3	-1.7	76.3979	-151.2212	-3.9	-1.2				
158.546326	75.6798	-147.7164	-3.0	77.0350	-146.2896	-4.0	-2.3					76.4211	-148.4124	-3.5	-3.2
158.546432				77.0345	-146.2908	-4.1	-2.7	76.3973	-151.2222	-4.3	-1.8	76.4207	-148.4139	-3.6	-3.3
158.546500	75.6798	-147.7176	-2.6												
158.546609				77.0331	-146.2955	-4.8	-3.7	76.3968	-151.2231	-4.4	-2.3				
158.546715	75.6773	-147.7411	-1.9					76.3954	-151.2269	-4.3	-3.0				
158.546833	75.6771	-147.7429	-1.7												
158.546942				77.0325	-146.2978	-5.1	-3.9					76.4191	-148.4204	-3.3	-3.3
158.547059	75.6769	-147.7453	-1.5					76.3948	-151.2286	-3.9	-2.7				
158.547166	75.6768	-147.7452	-1.4					76.3944	-151.2298	-3.6	-2.6	76.4186	-148.4227	-2.9	-3.2
158.547273				77.0316	-146.3007	-5.0	-3.9								
158.547380	75.6763	-147.7500	-1.2									76.4176	-148.4276	-2.0	-2.2
158.547487				77.0297	-146.3078	-4.8	-4.4					76.4175	-148.4281	-1.9	-1.8
158.547594	75.6762	-147.7505	-1.2	77.0293	-146.3092	-4.9	-4.6								
158.547701	75.6761	-147.7510	-1.3												
158.547808	75.6755	-147.7526	-1.7									76.4173	-148.4289	-1.6	-1.3
158.547915				77.0267	-146.3116	-5.1	-4.8								
158.548022	75.6752	-147.7554	-1.8									76.4167	-148.4315	-1.6	-2.9
158.548129	75.6745	-147.7631	-1.9	77.0266	-146.3199	-5.3	-4.4					76.4163	-148.4347	-2.0	-4.7
158.548236	75.6743	-147.7642	-1.9	77.0262	-146.3213	-5.1	-4.1								
158.548343				77.0257	-146.3233	-4.9	-3.7					76.4155	-148.4428	-2.1	-4.3
158.548450	75.6741	-147.7659	-1.9	77.0238	-146.3295	-5.5	-4.0					76.4154	-148.4439	-2.1	-3.7
158.548557												76.4151	-148.4458	-2.0	-2.6
158.548664	75.6733	-147.7684	-2.2	77.0225	-146.3335	-6.6	-4.8	76.3899	-151.2542	-2.5	-3.4				
158.548771								76.3896	-151.2557	-2.7	-3.6				
158.548878	75.6731	-147.7692	-2.3	77.0197	-146.3419	-7.6	-4.8								
158.548985												76.4143	-148.4489	-2.2	-2.3
158.549092	75.6726	-147.7711	-2.4									76.4142	-148.4497	-2.3	-2.7
158.549199				77.0162	-146.3458	-7.1	-3.4	76.3894	-151.2568	-2.7	-3.7				
158.549306	75.6719	-147.7790	-1.7					76.3891	-151.2589	-2.4	-3.8				
158.549413												76.4139	-148.4514	-2.2	-3.0
158.549520															
158.549627															
159.011246															
159.011353															
159.011460															
159.011567															

















DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP BLUE LONG	FOX NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP HIG BEAN LONG	NIV	EIV
161.525223																
162.541061																
162.541214																
162.541336																
162.555038																
162.558167																
162.558456																
162.561127																
162.563399																
162.584045																
162.584091																
162.584229																
162.594136																
162.611968																
162.614105																
162.614197																
162.614227																
162.628647																
162.628784																
162.659037																
162.659060																
162.659036																
162.659066																
162.673889																
162.673965																
162.674133																
162.686417																
162.686554																
162.686615																
162.703094																
162.703156																
162.703193																
162.715214																
162.715252																
162.715489																
162.749115																
162.749161																
162.749377																
162.756006																
162.756066																
162.758098																
162.758125																
162.778132																
162.778175																
162.810425																
162.810641																
162.810657																
162.824877																
162.824890																
162.824892																
162.833378																
162.853500																
162.853500																
162.853653																
162.860031																
162.900375																
162.900528																
162.900574																
162.900604																
162.930771																
162.930893																
162.930939																
162.931076																
162.958954																
162.959183																
162.959229																



DAY	LAT	CAMP CARRIAGE LONG	NIV	EIV	LAT	CAMP BLUE LONG	FOX	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG BEAR LONG	MIV	EIV
163.701096																	
163.701141																	
163.701187																	
163.701230																	
163.712067																	
163.712997																	
163.741776																	
163.741806																	
163.741802																	
163.749924																	
163.750122																	
163.770367																	
163.776443																	
163.776459																	
163.776611																	
163.784973																	
163.785065																	
163.785217																	
163.810971																	
163.825623																	
163.851212																	
163.851256																	
163.851303																	
163.851440																	
163.865800																	
163.866013																	
163.866058																	
163.900467																	
163.900497																	
163.900681																	
163.925552																	
163.925690																	
163.941528																	
163.941650																	
163.967100																	
163.968094																	
163.974910																	
163.975098																	
164.039215																	
164.039216																	
164.044209																	
164.072525																	
164.076181																	
164.091064																	
164.091217																	
164.122009																	
164.122208																	
164.145493																	
164.145508																	
164.191589																	
164.191696																	
164.191742																	
164.218527																	
164.218628																	
164.218765																	
164.238296																	
164.238403																	
164.238499																	
164.238541																	
164.265152																	
164.266266																	
164.292160																	
164.311493																	
164.311601																	
164.338348																	
164.341354																	
164.341402																	

DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG BEAR LONG	NIV	EIV
164-373947	75.5988	-147.8618	0.5	-3.3	76.8072	-146.2052	-2.3	-1.5	76.3111	-148.3354	-0.5	-1.4	76.3108	-148.3405	-0.7	-3.6
164-374069	75.5989	-147.8649	0.4	-3.4					76.3107	-148.3415	-0.7	-3.7	76.3107	-148.3427	-0.6	-3.9
164-374176									76.3109	-148.3377	-0.7	-2.6	76.3106	-148.3461	-0.6	-3.5
164-374257	75.5989	-147.8680	0.1	-3.8					76.3141	-151.3498	-0.5	-3.4	76.3103	-148.3500	-1.0	-1.5
164-374324	75.5989	-147.8713	0.0	-3.9					76.3139	-151.3500	-0.4	-2.8	76.3097	-148.3517	-1.4	-1.2
164-374405					76.8061	-146.2073	-2.2	-1.8	76.3130	-151.3593	-0.6	-2.2	76.3095	-148.3524	-1.3	-1.8
164-374479									76.3134	-151.3625	-1.0	-1.5	76.3092	-148.3551	-1.3	-3.0
164-374537	75.5989	-147.8786	-0.1	-2.5	76.8054	-146.2105	-2.5	-2.8	76.3133	-151.3633	-1.0	-1.9	76.3088	-148.3599	-1.4	-4.2
164-374612	75.5989	-147.8824	-0.7	-2.7	76.8048	-146.2130	-3.0	-1.9	76.3126	-151.3712	-1.2	-4.5				
164-374670	75.5986	-147.8848	-0.9	-2.9					76.3123	-151.3764	-0.8	-4.2	76.3082	-148.3711	-0.1	-4.1
164-374724	75.5985	-147.8860	-0.9	-2.9	76.8044	-146.2138	-3.0	-1.0	76.3122	-151.3793	-0.1	-3.1	76.3085	-148.3773	1.3	-2.7
164-374799					76.8032	-146.2152	-1.5	-2.0	76.3123	-151.3807	0.4	-2.4	76.3090	-148.3807	1.7	-2.6
164-374856	75.5983	-147.8892	-0.8	-3.3												
164-374910	75.5981	-147.8943	-0.6	-4.9	76.8020	-146.2258	-3.4	-2.7								
164-374963					76.8011	-146.2165	-0.9	-3.3	76.3122	-151.3793	-0.1	-3.1				
164-375018	75.5980	-147.9001	-0.2	-6.0	76.8028	-146.2212	-1.6	-4.1	76.3123	-151.3764	-0.8	-4.2				
164-375072																
164-375124	75.5980	-147.9047	0.2	-5.7	76.8020	-146.2258	-3.4	-2.7								
164-375176	75.5980	-147.9074	0.5	-5.1	76.8011	-146.2287	-2.3	-2.4	76.3122	-151.3793	-0.1	-3.1				
164-375228					76.8008	-146.2308	-0.7	-2.7	76.3123	-151.3807	0.4	-2.4				
164-375280	75.5980	-147.9123	1.4	-4.0												
164-375332	75.5985	-147.9148	2.0	-3.8	76.8008	-146.2358	-0.5	-2.8	76.3124	-151.3825	0.6	-2.6				
164-375384	75.5989	-147.9171	2.4	-3.8	76.8003	-146.2395	-2.7	-2.6								
164-375436					76.7998	-146.2414	-3.2	-2.7	76.3128	-151.3925	1.0	-5.2				
164-375488									76.3129	-151.3947	1.2	-5.3				
164-375540	75.5985	-147.9211	2.5	-3.4					76.3131	-151.3977	1.5	-5.0				
164-375592	75.5989	-147.9223	2.6	-2.8	76.3134	-151.4011	2.3	-3.8	76.3094	-148.3833	2.0	-2.5				
164-375644																

DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG HORN LONG	NIV	EIV
164.007104	75.6004	-147.9249	2.8	-1.6	76.7987	-146.2458	-1.1	-1.6	76.3139	-151.4032	2.6	-2.2	76.3102	-148.3858	2.2	-0.8
164.007105	75.6009	-147.9251	2.9	-0.7	76.7987	-146.2466	0.1	-0.6	76.3141	-151.4038	2.6	-1.1	76.3106	-148.3859	1.9	0.7
164.007106	75.6015	-147.9253	2.7	0.1	76.7987	-146.2469	-0.1	-0.1	76.3144	-151.4041	2.5	0.2	76.3108	-148.3856	1.8	1.3
164.007107	75.6023	-147.9252	2.5	0.2	76.7987	-146.2471	-0.7	-0.5	76.3149	-151.4034	1.9	0.9	76.3110	-148.3847	1.5	2.2
164.007108	75.6023	-147.9251	1.7	-0.3	76.7984	-146.2483	-1.3	-1.8	76.3151	-151.4031	1.8	-0.1				
164.007109	75.6024	-147.9253	1.6	-0.8	76.7982	-146.2500	-1.1	-2.1	76.3152	-151.4033	1.7	-1.0	76.3114	-148.3810	1.0	1.4
164.007110	75.6026	-147.9258	1.4	-1.3	76.7980	-146.2511	-0.8	-1.3	76.3155	-151.4046	1.7	-1.9	76.3115	-148.3807	0.9	0.6
164.007111	75.6027	-147.9262	1.4	-1.5	76.7978	-146.2517	-1.2	-0.2	76.3157	-151.4056	1.7	-1.6				
164.007112	75.6029	-147.9271	1.5	-1.5	76.7977	-146.2518	-1.6	-0.3	76.3162	-151.4069	2.3	-1.0	76.3119	-148.3829	0.6	-1.7
164.007113	75.6033	-147.9284	1.8	-1.3	76.7975	-146.2518	-1.7	-0.3	76.3165	-151.4074	2.4	-1.3	76.3119	-148.3834	0.5	-1.6
164.007114	75.6035	-147.9290	1.9	-1.5	76.7969	-146.2528	-1.1	-0.8	76.3170	-151.4089	2.7	-2.1	76.3120	-148.3843	0.5	-1.5
164.007115	75.6040	-147.9308	2.1	-2.6	76.7970	-146.2526	-1.3	-0.7	76.3175	-151.4108	2.6	-2.8	76.3121	-148.3855	0.6	-1.7
164.007116	75.6046	-147.9357	1.5	-4.0	76.7969	-146.2541	-0.9	-1.1	76.3176	-151.4115	2.6	-2.9	76.3121	-148.3860	0.6	-1.9
164.007117	75.6049	-147.9390	0.9	-3.7	76.7968	-146.2533	-0.7	-0.8	76.3180	-151.4131	2.4	-3.2	76.3122	-148.3870	0.7	-2.2
164.007118	75.6052	-147.9436	1.1	-2.6	76.7967	-146.2541	-0.9	-1.1	76.3184	-151.4160	2.1	-3.3	76.3122	-148.3876	0.8	-2.4
164.007119	75.6055	-147.9456	2.1	-2.6	76.7962	-146.2567	-1.7	-2.2	76.3192	-151.4208	2.1	-3.0	76.3124	-148.3892	1.1	-2.8
164.007120					76.7961	-146.2572	-1.8	-2.3	76.3199				76.3129	-148.3936	1.8	-2.4
164.007121					76.7958	-146.2589	-1.7	-2.8	76.3200				76.3130	-148.3941	2.0	-2.2
164.007122													76.3133	-148.3953	2.6	-1.7



DAY	LAT	CAMP CANTINU LONG	ALT	LAT	CAMP HUB LONG	ALT	CAMP SMOOTHER LONG	ALT	LAT	CAMP HIG HEAT LONG	ALT	
165.708094	75.6190	-147.9585	5.2 -3.4	76.7955	-146.2643	0.6 -1.9	76.3276	-151.4760	1.9 -4.7	76.3237	-148.3999	5.2 -1.0
165.708176	75.6196	-147.9598	5.3 -3.2	76.7956	-146.2649	0.2 -0.7	76.3282	-151.4813	2.6 -4.6	76.3252	-148.4011	5.9 -1.2
165.721222				76.7957	-146.2645	1.5 0.6				76.3256	-148.4015	6.1 -1.2
165.721268				76.7958	-146.2644	2.4 0.4				76.3265	-148.4021	6.3 -1.1
165.721329										76.3271	-148.4026	6.4 -1.0
165.721497												
165.735536												
165.756073												
165.756165	75.6211	-147.9630	5.9 -2.8	76.7957	-146.2645	1.5 0.6						
165.756195	75.6215	-147.9639	6.2 -2.7	76.7958	-146.2644	2.4 0.4						
165.765717												
165.765854												
165.783279	75.6224	-147.9653	6.5 -2.7	76.7957	-146.2645	1.5 0.6	76.3284	-151.4827	2.8 -4.6			
165.783371				76.7958	-146.2644	2.4 0.4	76.3288	-151.4854	3.0 -4.6			
165.783478												
165.796738	75.6231	-147.9665	6.7 -2.8	76.7956	-146.2649	0.2 -0.7	76.3291	-151.4874	3.1 -4.6			
165.796906												
165.796906	75.6240	-147.9681	6.9 -3.0	76.7968	-146.2644	5.0 -0.5	76.3296	-151.4901	3.1 -4.6			
165.814514												
165.814545												
165.814616												
165.814758												
165.831406												
165.831512	75.6250	-147.9697	6.9 -3.0	76.7975	-146.2649	5.9 -0.8	76.3300	-151.4926	3.1 -4.4			
165.831619												
165.858093	75.6264	-147.9720	7.0 -2.5				76.3306	-151.4958	3.1 -2.9			
165.858246							76.3310	-151.4969	3.2 -1.8			
165.872437												
165.872559	75.6272	-147.9731	7.1 -2.1				76.3314	-151.4976	3.2 -0.8			
165.889328												
165.889404	75.6281	-147.9740	7.2 -1.8	76.8015	-146.2634	3.4 3.3	76.3318	-151.4978	3.3 -0.2			
165.906142												
165.906172	75.6291	-147.9750	7.2 -1.8				76.3325	-151.4979	3.4 -0.2			
165.906570							76.3329	-151.4981	3.3 -0.6			
165.932251	75.6305	-147.9764	6.9 -1.9	76.8023	-146.2570	2.3 5.2						
165.932307												
165.947506												
165.948013												
165.948044	75.6313	-147.9774	6.3 -1.9				76.3333	-151.4986	3.2 -1.3			
165.964554												
165.964570	75.6321	-147.9784	5.5 -2.0	76.8026	-146.2541	2.9 4.7	76.3337	-151.4996	3.0 -2.1			
165.964813				76.8030	-146.2519	3.2 3.3						
165.980317												
165.980774												
166.022964				76.8041	-146.2488	3.2 2.3						
166.023050							76.3347	-151.5027	3.1 -1.4			
166.023078	75.6341	-147.9819	3.7 -1.8									
166.023178							76.3351	-151.5031	3.5 0.0			
166.038879												
166.040039	75.6346	-147.9829	3.7 -1.9									
166.040100												
166.040100												
166.054367	75.6350	-147.9838	3.7 -2.1	76.8045	-146.2472	3.0 3.2	76.3355	-151.5028	3.7 0.8			
166.054581				76.8048	-146.2455	2.7 3.8						
166.054611												
166.078564				76.8053	-146.2474	1.9 3.4						
166.079086												
166.079102	75.6357	-147.9857	3.6 -3.1				76.3363	-151.5022	4.0 0.3			
166.079224												
166.089305				76.8055	-146.2407	1.2 2.0						
166.089412							76.3368	-151.5025	4.0 -1.6			
166.097443	75.6362	-147.9878	3.3 -3.2									
166.097565												

DAY	LAT	CAMP CAMPBIRD LONG	NIV	EIV	LAT	CAMP BLUE LONG	FOX NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG BEAK LONG	NIV	EIV
166.127670	75.6169	-147.9927	2.8	-6.2	76.8057	-146.2399	0.2	-0.3	76.3378	-151.5056	4.2	-4.2	76.3413	-148.4010	2.8	-2.7
166.127808																
166.127934																
166.127945																
166.152054	75.6374	-147.9978	2.6	-7.4	76.8056	-146.2407	-0.8	-1.7	76.3386	-151.5092	4.7	-4.7				
166.152084																
166.152252																
166.171127																
166.171326	75.6378	-148.0025	2.5	-8.2	76.8054	-146.2421	-1.5	-2.4	76.3394	-151.5120	5.3	-4.3				
166.171356																
166.189651																
166.189682																
166.189880	75.6382	-148.0073	2.3	-8.4	76.8052	-146.2437	-1.4	-2.8	76.3401	-151.5145	5.8	-3.9				
166.200745																
166.200821	75.6384	-148.0101	2.2	-8.3	76.8051	-146.2448	-1.0	-2.9								
166.225159	75.6388	-148.0161	2.5	-7.5												
166.225250																
166.225281																
166.244446																
166.244614																
166.244751																
166.263733																
166.267654	75.6406	-148.0102	3.3	-5.2	76.8050	-146.2472	0.1	-2.7	76.3426	-151.5206	5.1	-3.2	76.3434	-148.4138	3.7	-3.7
166.268615																
166.298767																
166.298826	75.6411	-148.0132	3.1	-5.1	76.8051	-146.2489	0.5	-2.6	76.3435	-151.5230	4.4	-3.1	76.3440	-148.4161	4.1	-3.6
166.317657																
166.317688																
166.337296																
166.337311	75.6415	-148.0163	2.8	-5.2	76.8051	-146.2489	0.5	-2.6	76.3445	-151.5260	4.2	-2.7	76.3446	-148.4186	4.0	-4.4
166.347061	75.6417	-148.0379	2.5	-5.4												
166.347365																
166.350317																
166.350554																
166.350854	75.6426	-148.0489	0.8	-5.5												
166.410324																
166.420807	75.6426	-148.0507	0.5	-5.4												
166.420990																
166.428360																
166.428220	75.6427	-148.0551	0.0	-5.4												
166.427296																
166.427342																
166.431842	75.6427	-148.0579	-0.1	-5.5												
166.434035																
166.434111																
166.432925																
166.433063	75.6426	-148.0636	-0.7	-6.3												
166.435148																
166.435245																
166.435354																
166.435400	75.6424	-148.0692	-1.4	-6.7												
166.435507																
166.435598	75.6422	-148.0723	-1.7	-6.5												
166.435796																
166.435796	75.6419	-148.0758	-1.7	-6.1												
166.435844																
166.435847																
166.435847																
166.435847	75.6417	-148.0786	-1.7	-6.0												
166.435847																
166.435847	75.6414	-148.0818	-1.7	-6.3												
166.435847																
166.435847	75.6412	-148.0866	-1.7	-6.6												
166.435847																
166.435847	75.6410	-148.0901	-1.8	-7.0												
166.435847																
166.435847																
166.435847																
166.435847																

















[illegible]



DAY	LAT	CAMP CARKHUR LONG	EIV	LAT	CAMP BLUE FOX LONG	EIV	LAT	CAMP SNOWHURD LONG	EIV	LAT	CAMP BIG BEAK LONG	EIV
169.912194	76.7965	-147.0372	-13.5	-6.1	76.3539	-152.2550	-6.6	-1.4	76.3533	-149.2098	-9.8	-4.6
169.912922	75.6349	-148.7318	-10.8	-5.2	76.3530	-152.2560	-6.4	-2.3				
169.912024	75.6316	-148.7565	-10.3	-5.8								
169.912174												
169.912447												
170.034698	76.7904	-147.0518	-8.9	-4.5	76.3510	-152.2599	-6.0	-2.5	76.3484	-149.2189	-7.0	-1.5
170.034927					76.3502	-152.2610	-5.9	-1.8				
170.034927	76.7893	-147.0538	-9.0	-3.7	76.3495	-152.2617	-5.8	-1.3	76.3462	-149.2195	-7.7	-0.2
170.034927					76.3484	-152.2628	-6.1	-1.4				
170.034927					76.3460	-152.2661	-6.2	-2.7	76.3386	-149.2260	-8.2	-3.8
170.034927	75.6231	-148.7166	-8.2	-2.8	76.3434	-152.2722	-5.3	-3.3				
170.034927												
170.034927	76.7795	-147.0656	-6.6	-3.2	76.3428	-152.2736	-5.2	-3.1	76.3356	-149.2343	-5.3	-4.4
170.034927	76.7782	-147.0690	-5.9	-3.9	76.3412	-152.2779	-3.5	-2.9	76.3350	-149.2365	-4.7	-4.2
170.034927	76.7773	-147.0715	-6.0	-4.1	76.3409	-152.2794	-2.6	-2.9				
170.034927												
170.034927	76.7761	-147.0751	-5.3	-3.9	76.3406	-152.2806	-2.0	-3.0	76.3345	-149.2382	-4.3	-4.0
170.034927	76.7746	-147.0808	-3.0	-3.4	76.3402	-152.2853	-0.7	-3.2				
170.034927					76.3401	-152.2867	-0.7	-3.1	76.3328	-149.2446	-3.2	-2.2
170.034927									76.3325	-149.2454	-3.1	-1.6
170.034927	76.7741	-147.0838	-2.1	-3.0	76.3401	-152.2880	-0.7	-2.9				
170.034927	76.7737	-147.0866	-1.7	-3.3					76.3315	-149.2469	-2.5	-1.0
170.034927	76.7733	-147.0905	-1.0	-3.9	76.3398	-152.2924	-0.6	-1.8	76.3312	-149.2475	-2.1	-1.3
170.034927									76.3307	-149.2502	-1.1	-2.8
170.034927	76.7732	-147.0950	0.2	-2.2					76.3305	-149.2534	-0.5	-3.5
170.034927					76.3394	-152.2981	-0.2	-2.8	76.3305	-149.2552	-0.3	-3.5
170.034927	76.7733	-147.1000	0.2	-1.5					76.3304	-149.2609	-0.3	-2.2
170.034927	76.7731	-147.1026	-1.3	-2.0	76.3394	-152.3036	0.2	-2.0				
170.034927					76.3395	-152.3045	0.4	-1.2	76.3303	-149.2621	-0.3	-1.9
170.034927	76.7729	-147.1040	-1.7	-2.8					76.3303	-149.2639	0.1	-2.8
170.034927	76.7725	-147.1068	-2.6	-3.4	76.3396	-152.3057	0.8	-1.9	76.3303	-149.2655	0.4	-3.9
170.034927									76.3304	-149.2678	0.8	-5.4
170.034927	76.7723	-147.1085	-1.9	-3.5								
170.034927					76.3398	-152.3089	1.0	-5.0				
170.034927	76.7721	-147.1104	-1.7	-3.7	76.3400	-152.3125	1.2	-6.8	76.3304	-149.2678	0.8	-5.4
170.034927	76.7719	-147.1129	-1.1	-4.1								
170.034927	76.7718	-147.1162	0.6	-4.3								
170.034927												
170.034927												

DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP BLUE LONG	FOX	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG BEAR LONG	NIV	EIV
170.081427					76.7718	-147.1172	0.3	-4.3		76.3402	-152.3181	1.6	-7.1	76.3310	-149.2797	1.5	-5.5
170.087759										76.3404	-152.3216	1.9	-6.5	76.3312	-149.2825	1.6	-4.6
170.090823										76.3407	-152.3248	2.3	-5.7	76.3314	-149.2853	1.7	-4.2
170.096669					76.7719	-147.1208	0.9	-4.0		76.3411	-152.3284	2.7	-5.3	76.3317	-149.2881	1.9	-4.5
170.713325										76.3416	-152.3320	3.1	-5.6	76.3320	-149.2908	2.1	-5.3
170.713593					76.7721	-147.1234	0.6	-3.6		76.3418	-152.3337	3.2	-5.8	76.3323	-149.2942	2.2	-6.4
170.713720										76.3425	-152.3389	3.7	-6.7	76.3330	-149.3028	2.9	-7.3
170.713737					76.7720	-147.1296	-1.0	-3.4		76.3431	-152.3436	4.1	-7.3	76.3345	-149.3161	3.3	-6.5
170.713744					76.7718	-147.1320	-1.7	-3.6		76.3437	-152.3477	4.5	-7.4	76.3348	-149.3196	3.3	-6.1
170.713761					76.7715	-147.1340	-2.0	-3.6		76.3441	-152.3506	4.9	-7.3	76.3352	-149.3217	3.2	-5.8
170.713771										76.3451	-152.3569	5.4	-7.4	76.3358	-149.3267	2.9	-5.5
170.713780					76.7712	-147.1365	-2.2	-3.5		76.3460	-152.3617	5.7	-7.5	76.3362	-149.3300	2.4	-5.3
170.713790					76.7709	-147.1385	-2.2	-3.0		76.3466	-152.3652	6.0	-7.5	76.3365	-149.3321	2.0	-5.0
170.713804					76.7706	-147.1402	-2.0	-2.1		76.3473	-152.3687	6.2	-7.6	76.3367	-149.3344	1.5	-4.5
170.713814										76.3477	-152.3707	6.2	-7.7	76.3369	-149.3383	0.5	-3.8
170.713822					76.7702	-147.1420	-1.9	-2.3		76.3486	-152.3755	6.2	-7.8	76.3369	-149.3420	0.2	-4.1
170.713830										76.3495	-152.3803	5.9	-7.7	76.3370	-149.3441	0.3	-4.3
170.713840										76.3501	-152.3835	5.6	-7.4	76.3370	-149.3458	0.5	-4.5
170.713850										76.3507	-152.3870	5.3	-7.0	76.3371	-149.3527	-0.4	-4.4
170.713860										76.3536	-152.4014	5.2	-5.2	76.3370	-149.3547	-1.1	-4.3
170.713870					76.7672	-147.1620	-4.5	-4.1		76.3540	-152.4033	5.3	-4.9	76.3369	-149.3566	-1.8	-4.1
170.713880										76.3548	-152.4061	5.2	-4.4				
170.713890					76.7648	-147.1682	-4.7	-2.1		76.3554	-152.4083	4.8	-3.9				
170.713900										76.3559	-152.4098	4.4	-3.6				
170.713910					76.7644	-147.1690	-4.3	-1.9									
170.713920					76.7639	-147.1699	-3.9	-1.9									
170.713930																	
170.713940																	
170.713950																	
170.713960																	
170.713970																	
170.713980																	
170.713990																	
170.714000																	



DAY	LAT	CAMP CARIBOU LONG	FIV	LAT	CAMP MOUNT FOX LONG	FIV	LAT	CAMP SNOWBIRD LONG	FIV	LAT	CAMP BIG BEAK LONG	FIV
11.54170												
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11.54300												



DAY	LAT	CAMP CAMBODIA LONG	NIV	EIV	LAT	CAMP BLUE LONG	FOX NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG HEAR LONG	NIV	EIV
172-212878	75.6314	-149.1399	8.7	-5.0	76.7393	-147.2193	1.7	1.5	76.4145	-152.5558	10.3	-2.8	76.3461	-149.4439	6.6	0.7
172-213000																
172-213122	75.6356	-149.1452	8.9	-6.0					76.4164	-152.5580	10.2	-2.6				
172-213135	75.6311	-149.1496	8.4	-5.9					76.4181	-152.5597	10.2	-2.5				
172-213150	75.6310								76.4205	-152.5628	10.4	-3.8				
172-213207	75.6385	-149.1533	8.1	-5.5					76.4215	-152.5645	10.4	-4.7				
172-213805													76.3530	-149.4456	8.1	-3.7
172-213881													76.3536	-149.4470	8.2	-4.6
172-213902													76.3549	-149.4504	8.3	-5.4
172-213938																
172-214044	75.6432	-149.1650	8.7	-4.6	76.7407	-147.2150	2.2	-1.0	76.4240	-152.5701	10.3	-3.9				
172-214072									76.4266	-152.5762	10.6	-5.7				
172-214159									76.4275	-152.5784	9.9	-5.6				
172-214252																
172-214342																
172-214379																
172-214456																
172-214512	75.6463	-149.1714	9.0	-4.8	76.7422	-147.2188	3.0	-1.4								
172-214551					76.7424	-147.2192	3.3	-1.5								
172-214619					76.7429	-147.2202	4.0	-1.6								
172-214656																
172-214700	75.6483	-149.1758	9.1	-5.3	76.7442	-147.2225	4.9	-2.3	76.4336	-152.5936	11.4	-7.2				
172-214743																
172-214789	75.6518	-149.1846	10.0	-6.6	76.7446	-147.2234	5.0	-2.5								
172-214833					76.7450	-147.2242	5.2	-2.7								
172-214879					76.7456	-147.2256	5.5	-2.6								
172-214925	75.6538	-149.1898	11.0	-7.3					76.4359	-152.5998	12.9	-8.1				
172-214971																
172-215017									76.4398	-152.6100	14.3	-9.1				
172-215063									76.4414	-152.6145	14.4	-9.4				
172-215109																
172-215155	75.6586	-149.2010	13.0	-6.0												
172-215201																
172-215247	75.6608	-149.2045	13.6	-4.8	76.7493	-147.2305	7.9	-1.8	76.4438	-152.6211	14.5	-9.4				
172-215293									76.4451	-152.6244	14.7	-9.2				
172-215339	75.6651	-149.2096	14.5	-4.2												
172-215385									76.4484	-152.6329	14.5	-8.2				
172-215431									76.4500	-152.6366	14.2	-7.5				
172-215477	75.6669	-149.2117	14.6	-4.6												
172-215523																
172-215569	75.6703	-149.2161	14.0	-4.2					76.4533	-152.6434	13.3	-5.7				
172-215615									76.4561	-152.6482	12.6	-5.0				
172-215661																
172-215707									76.4577	-152.6509	12.3	-5.4				
172-215753	75.6749	-149.2210	12.9	-3.3	76.7597	-147.2451	12.4	-6.5								
172-215799																
172-215845					76.7626	-147.2522	13.1	-6.7								
172-215891																
172-215937									76.4605	-152.6564	12.2	-5.5				











PAY	LAT	CAMP CARBON	LAT	CAMP BLUE	LAT	CAMP SHOWN	LAT	CAMP BIG	PAY
15.152061	75.7341	-149.3823	76.8364	-147.4594	76.8364	-149.7012	76.4513	-149.7012	-0.5
15.152069	75.7338	-149.3831	76.8364	-147.4595	76.8364	-149.7013	76.4513	-149.7013	-0.2
15.152075	75.7333	-149.3844	76.8366	-147.4597	76.8366	-149.7014	76.4512	-149.7014	-0.2
15.152082	75.7331	-149.3848	76.8365	-147.4677	76.8365	-149.7027	76.4506	-149.7027	-0.5
15.152089	75.7326	-149.3859	76.8367	-147.4677	76.8367	-149.7030	76.4504	-149.7030	-0.3
15.152093	75.7319	-149.3867	76.8367	-147.4724	76.8367	-149.7032	76.4504	-149.7032	-0.3
15.152099	75.7318	-149.3867	76.8375	-147.4733	76.8375	-149.7034	76.4502	-149.7034	-0.6
15.152100	75.7313	-149.3867	76.8379	-147.4729	76.8379	-149.7039	76.4501	-149.7039	-1.0
15.152105	75.7308	-149.3870	76.8381	-147.4731	76.8381	-149.7043	76.4499	-149.7043	-1.3
15.152109	75.7292	-149.3906	76.8383	-147.4742	76.8383	-149.7047	76.4498	-149.7047	-1.6
15.152110	75.7288	-149.3914	76.8384	-147.4727	76.8384	-149.7054	76.4490	-149.7054	-2.4
15.152115	75.7286	-149.3918	76.8386	-147.4695	76.8386	-149.7068	76.4487	-149.7068	-2.6
15.152117	75.7275	-149.3933	76.8386	-147.4677	76.8386	-149.7075	76.4480	-149.7075	-2.5
15.152119	75.7273	-149.3936	76.8381	-147.4686	76.8381	-149.7087	76.4476	-149.7087	-2.2
15.152121	75.7270	-149.3943	76.8380	-147.4702	76.8380	-149.7094	76.4475	-149.7094	-2.2
15.152122	75.7265	-149.3949	76.8377	-147.4730	76.8377	-149.7108	76.4472	-149.7108	-2.2
15.152123	75.7261	-149.3951	76.8375	-147.4743	76.8375	-149.7126	76.4467	-149.7126	-2.1
15.152124	75.7259	-149.3951	76.8361	-147.4693	76.8361	-149.7138	76.4464	-149.7138	-1.8
15.152125	75.7256	-149.3950	76.8361	-147.4693	76.8361	-149.7144	76.4463	-149.7144	-1.6
15.152126	75.7248	-149.3946	76.8360	-147.4702	76.8360	-149.7149	76.4461	-149.7149	-1.5
15.152127	75.7242	-149.3943	76.8375	-147.4743	76.8375	-149.7163	76.4455	-149.7163	-2.0
15.152128	75.7231	-149.3935	76.8374	-147.4750	76.8374	-149.7161	76.4453	-149.7161	-2.4
15.152129	75.7206	-149.3922	76.8373	-147.4754	76.8373	-149.7158	76.4451	-149.7158	-2.8
15.152130									1.0

DAY	LAT	CAMP CARIBOU LONG	EIV	LAT	CAMP BLUE FOX LONG	EIV	LAT	CAMP SNOOWHIND LONG	EIV	LAT	CAMP BIG BEAR LONG	EIV
175.727219												
175.727310												
175.730982												
175.741104	75.7197	-149.3923	-7.8 -0.5	76.8371	-147.4773	-0.7 -2.3	76.4437	-149.7141	-4.7 0.5			
175.754059	75.7189	-149.3926	-7.9 -1.2	76.8370	-147.4786	-0.9 -3.3						
175.754899												
175.754927												
175.801464	75.7161	-149.3956	-6.7 -2.3	76.8369	-147.4803	-1.1 -4.2						
175.801590												
175.811356	75.7156	-149.3965	-5.9 -2.2									
175.811348												
175.824771	75.7149	-149.3974	-4.7 -1.5	76.8361	-147.4926	-1.3 -3.8						
175.829849				76.8359	-147.4958	-0.7 -2.7						
175.861175												
175.871211	75.7140	-149.3978	-2.8 0.7	76.8359	-147.4972	-0.5 -2.7						
175.876563												
175.885250	75.7135	-149.3988	-2.3 1.7									
175.895820												
175.892369	75.7134	-149.3984	-2.4 1.8									
175.905399												
175.905354	75.7132	-149.3957	-2.6 1.7	76.8358	-147.5000	-0.1 -3.1						
175.905326												
175.931373				76.8361	-147.5068	0.8 -1.3						
175.980367												
175.980392												
176.0271100												
176.0271310	75.7099	-149.3836	-3.5 6.5	76.8363	-147.5067	0.4 1.4						
176.038910												
176.058640	75.7090	-149.3739	-1.5 9.1									
176.083089	75.7083	-149.3684	-4.0 10.1	76.8363	-147.5011	-0.2 1.8						
176.102666												
176.102681												
176.102719	75.7077	-149.3623	-4.4 10.0									
176.111869	75.7073	-149.3593	-4.6 9.7									
176.111944												
176.128284				76.8362	-147.5000	-0.4 0.6						
176.128983	75.7067	-149.3543	-4.7 8.9									
176.132690												
176.155991				76.8361	-147.4997	-1.4 0.5						
176.156113	75.7057	-149.3473	-4.6 8.0									
176.156235				76.8358	-147.4989	-2.1 2.1						
176.165229												
176.165299												
176.165590												
176.185104				76.8353	-147.4959	-2.3 4.7						
176.202240	75.7041	-149.3163	-4.8 7.2									
176.202438												
176.202484												
176.206314	75.7030	-149.3105	-5.2 7.0	76.8344	-147.4863	-2.5 5.8						
176.229065												
176.250412				76.8339	-147.4819	-3.3 4.9						
176.250549												
176.250599	75.7011	-149.3206	-5.3 6.6									
176.275375												
176.275497												
176.275620												
176.279465	75.7001	-149.3153	-4.2 6.0	76.8325	-147.4739	-3.8 5.5						
176.302216												
176.323776												
176.323883												
176.324005												
176.324020	75.6995	-149.3113	-2.8 5.6	76.8318	-147.4686	-3.4 7.2						
176.348450												
176.348465	75.6991	-149.3071	-1.6 5.5									

DAY	LAT	CAMP CARIBOU LONG	EIV	LAT	CAMP BLUE LONG	FOX NIV	EIV	LAT	CAMP SNOWHORN LONG	NIV	EIV	LAT	CAMP BIG BEAR LONG	NIV	EIV
176.348694															
176.352402															
176.375193															
176.376007															
176.396729															
176.396891															
176.396927															
176.396973															
176.406799															
176.406937															
176.421616															
176.421738															
176.421906															
176.422319															
176.445982															
176.450226															
176.464998															
176.465559															
176.465949															
176.469742															
176.481766															
176.481766															
176.481995															
176.495209															
176.495377															
176.495422															
176.524796															
176.524841															
176.524902															
176.525024															
176.545267															
176.545297															
176.545343															
176.545326															
176.550491															
176.565550															
176.565641															
176.600052															
176.600204															
176.600342															
176.612250															
176.615433															
176.615540															
176.618458															
176.631118															
176.644319															
176.644424															
176.675644															
176.675903															
176.687882															
176.688965															
176.695236															
176.708572															
176.708603															
176.708725															
176.715543															
176.715549															
176.715727															
176.721176															
176.762476															
176.763000															
176.763016															
176.763123															
176.763600															
176.763661															
176.763676															
176.763829															
176.765044															
176.795212															
176.795319															

[illegible]









DAY	CAMP CAHIMBU LAT	CAMP CAHIMBU LONG	EIV	LAT	CAMP HUR LONG	FOR NIV	FIV	LAT	CAMP SHUMIRO LONG	NIV	FIV	LAT	CAMP HIG LONG	NEAR NIV	EIV
179.240567	75.7521	-149.0421	2.5 15.0												
179.240593															
179.240623	75.7523	-149.0451	2.0 15.4	76.8362	-147.1007	10.3	5.9								
179.240649															
179.240675	75.7525	-149.0295	1.8 15.5	76.8371	-147.0984	10.3	5.6								
179.240701															
179.240727	75.7527	-149.0415		76.8378	-147.0968	10.2	5.4								
179.240753															
179.240779	75.7529	-149.0141	1.5 16.0												
179.240805															
179.240831	75.7531	-149.0070	1.4 16.2												
179.240857															
179.240883	75.7533	-148.9981	1.4 15.9												
179.240909															
179.240935	75.7534	-148.9929	1.5 15.5	76.8421	-147.0832	6.4	8.3								
179.240961															
179.240987	75.7535	-148.9886	1.5 15.0												
179.241013															
179.241039	75.7536	-148.9784	1.5 13.2												
179.241065															
179.241091	75.7539	-148.9734	1.4 12.1	76.8439	-147.0680	3.6	11.6								
179.241117															
179.241143	75.7541	-148.9665	1.6 11.1												
179.241169															
179.241195	75.7549	-148.9519	1.0 10.8	76.8443	-147.0603	2.6	12.7								
179.241221															
179.241247	75.7552	-148.9434	3.5 11.0												
179.241273															
179.241299	75.7556	-148.9377	4.4 10.4	76.8448	-147.0398	0.2	14.6								
179.241325															
179.241351	75.7573	-148.9216	5.1 9.0												
179.241377															
179.241403	75.7584	-148.9200	4.7 8.6												
179.241429															
179.241455	75.7589	-148.9161	4.1 8.6	76.8437	-146.9965	-1.4	6.7								
179.241481															
179.241507	75.7598	-148.9071	2.3 8.6												
179.241533															
179.241559	75.7599	-148.9042	1.6 8.6	76.8432	-146.9840	-0.7	6.3								
179.241585															
179.241611	75.7600	-148.9005	0.6 8.8												
179.241637															
179.241663	75.7595	-148.8950	-3.2 11.0	76.8429	-146.9726	-0.6	6.9								
179.241689															





DAY	LAT	CAMP CARIBOU LONG	NIV	PIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	PIV	LAT	CAMP HIG WYAN LONG	NIV	EIV
181.486459	75.7775	-148.5243	12.6	0.9					76.6394	-152.0542	10.4	-3.7	76.4857	-148.7309	10.7	-3.0
181.486512									76.6437	-152.0619	7.3	-4.7				
181.486577	75.7866	-148.5315	18.4	-12.5									76.4927	-148.7457	14.0	-9.5
181.486609					76.8464	-146.4857	11.3	-3.5	76.6444	-152.0641	6.4	-5.4				
181.486746					76.8475	-146.4871	11.6	-3.2								
181.486773									76.6455	-152.0693	5.1	-7.2				
181.486814	75.7927	-148.5570	22.5	-13.1									76.5032	-148.7710	19.6	-4.4
181.486857					76.8540	-146.4915	14.9	-0.8					76.5081	-148.7714	21.4	3.0
181.486905									76.6489	-152.0891	8.9	-6.8				
181.486925	75.8005	-148.5713	23.9	-6.8					76.6521	-152.0959	12.1	-4.1	76.5150	-148.7645	21.9	5.7
181.486950					76.8583	-146.4916	18.4	0.7	76.6593	-152.1012	12.8	0.1	76.5270	-148.7527	18.3	4.9
181.486974									76.6608	-152.1008	12.7	1.2	76.5112	-148.7434	18.6	3.4
181.487011					76.8643	-146.4899	20.8	1.6					76.5324	-148.7457	18.2	5.4
181.487046									76.6662	-152.0948	11.5	4.9	76.5356	-148.7410	15.1	5.6
181.487072									76.6679	-152.0915	10.9	5.8	76.5368	-148.7390	14.7	5.7
181.487107													76.5378	-148.7374	14.3	5.8
181.487132	75.8335	-148.5026	9.6	11.0					76.6695	-152.0873	10.1	6.6	76.5399	-148.7335	13.1	5.8
181.487157					75.8348	-148.4963	7.5	9.3					76.5409	-148.7316	12.4	5.7
181.487182																
181.487207	75.8354	-148.4933	6.4	8.6					76.6719	-152.0791	8.3	8.3	76.5430	-148.7273	10.5	5.6
181.487232	75.8364	-148.4874	4.4	8.0					76.6732	-152.0724	7.2	9.7	76.5447	-148.7232	9.2	5.5
181.487257									76.6743	-152.0659	6.5	10.5				
181.487282	75.8368	-148.4839	3.7	8.0									76.5460	-148.7197	8.6	5.5
181.487307									76.6757	-152.0543	5.0	11.4	76.5480	-148.7139	7.9	6.0
181.487332	75.8375	-148.4771	3.1	7.5					76.6761	-152.0497	4.2	11.6	76.5487	-148.7114	7.6	6.4
181.487357	75.8382	-148.4704	2.9	6.3					76.6765	-152.0447	3.4	11.7				
181.487382													76.5495	-148.7086	7.2	6.7
181.487407	75.8385	-148.4680	2.7	5.6					76.6769	-152.0372	2.4	11.5				
181.487432																
181.487457	75.8388	-148.4659	2.4	4.9									76.5505	-148.7043	6.4	6.4
181.487482	75.8391	-148.4634	2.1	3.4									76.5509	-148.7025	5.9	6.0
181.487507																
181.487532	75.8393	-148.4625	2.0	2.7									76.5522	-148.6967	4.4	4.9
181.487557	75.8396	-148.4606	2.7	1.8												
181.487582									76.6773	-152.0222	0.0	10.1				
181.487607													76.6772	-152.0114	-0.8	9.4
181.487632					76.9153	-146.4319	6.0	9.6								
181.487657																
181.487682	75.8409	-148.4576	5.6	4.2												
181.487707	75.8423	-148.4538	8.1	7.1												
181.487732																
181.487757																



DAY	LAT	CAMP CAMERON LONG	FIV	LAT	CAMP HUE LONG	FIV	LAT	CAMP SNOWBIRD LONG	FIV	LAT	CAMP BIG LONG	HIV	EIV
182.208317	75.8408	-148.2915	3.9 10.9							76.5437	-148.5372	0.7 5.1	
182.607285										76.5439	-148.5339	1.5 5.6	
182.607437										76.5443	-148.5277	1.9 7.1	
182.607529													
182.618164										76.5447	-148.5209	1.8 8.4	
182.637177										76.5452	-148.5061	0.8 11.4	
182.637238	75.8417	-148.2800	2.9 12.6										
182.637314													
182.663757													
182.663812													
182.702335	75.8419	-148.2522	-2.7 12.3										
182.704733													
182.722065	75.8414	-148.2345	-4.5 12.1										
182.739314	75.8410	-148.2407	-5.1 11.6										
182.739319													
182.755096	75.8403	-148.2352	-6.0 10.5										
182.755203													
182.769102	75.8389	-148.2277	-7.5 7.2										
182.781403													
182.781616													
182.804182													
182.812094	75.8368	-148.2222	-8.6 1.7										
182.823849													
182.829441													
182.844391													
182.848620	75.8349	-148.2193	-7.7 2.9										
182.851821													
182.890166													
182.890503													
182.890610	75.8427	-148.2158	-4.2 1.3										
182.904951													
182.905090	75.8423	-148.2155	-2.7 0.2										
182.925590													
182.926666													
182.952103													
182.952179	75.8421	-148.2171	1.5 -1.8										
182.953179													
182.964669													
182.965251													
182.980255													
182.980484	75.8427	-148.2186	3.9 -1.5										
183.023310													
183.023375	75.8446	-148.2202	6.5 -0.9										
183.025497													
183.040176	75.8453	-148.2206	6.8 -0.9										
183.052435													
183.055573													
183.055695	75.8462	-148.2210	6.9 -0.7										
183.066769	75.8467	-148.2212	6.8 -0.4										
183.073792													
183.098389	75.8483	-148.2208	5.3 1.4										
183.098479													
183.098557													
183.130173													
183.130764	75.8493	-148.2184	2.8 3.1										
183.139402													
183.139282													
183.148132													
183.171463													
183.171524													
183.171677													
183.187378													
183.222763	75.8401	-148.2113	0.8 0.3										
183.244443	75.8403	-148.2116	0.8 -0.8										
183.244995													















DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG BEAR LONG	NIV	EIV
181.25012	75.6765	-146.7021	-11.1	12.9									76.5180	-150.3160	-17.2	12.4
181.32876													76.5096	-150.2974	-11.9	3.6
181.32878	75.6732	-146.7675	-8.6	10.3									76.5064	-150.2943	-7.0	1.6
181.37049													76.5051	-150.2926	-2.5	1.1
181.37051	75.6714	-146.7578	-6.4	9.9									76.5049	-150.2922	-1.4	0.9
181.37050													76.5052	-150.2877	1.9	5.8
181.40165													76.5061	-150.2747	3.5	10.3
181.40171													76.5086	-150.2489	3.5	9.9
181.40181													76.5092	-150.2402	2.0	9.2
181.418396	75.6896	-146.7453	-4.4	8.3									76.5093	-150.2370	1.4	8.9
181.41844	75.6886	-146.7379	-4.1	8.1									76.5096	-150.2269	0.8	7.2
181.475006													76.5098	-150.2213	1.8	5.3
181.48243	75.6884	-146.7359	-4.2	8.4									76.5100	-150.2195	2.4	4.4
181.48247	75.6881	-146.7336	-4.3	8.9									76.5102	-150.2183	2.9	3.7
181.491058	75.6672	-146.7252	-3.8	9.4									76.5111	-150.2159	5.2	1.5
181.520142													76.5122	-150.2153	7.3	-0.1
181.520142	75.6884	-146.7152	-1.2	6.7									76.5131	-150.2153	8.7	-1.1
181.558167	75.6863	-146.7135	-0.5	5.5												
181.567368																
181.567520																
181.592335																
181.623169																
181.633804																
181.637244	75.6671	-146.7064	2.4	3.6									76.3699	-146.8298	-2.4	8.0
181.671187	75.6678	-146.7018	3.4	4.5									76.3691	-146.8161	-0.2	6.4
181.698029																
181.709045																
181.709183																
181.709290	75.6693	-146.6974	6.5	2.9									76.3698	-146.7967	1.3	9.6
181.717911																
181.718033	75.6697	-146.6966	7.3	2.5												
181.746719																
181.746719	75.6717	-146.6948	9.5	1.6									76.3707	-146.7816	3.9	6.0
181.768951	75.6734	-146.6938	10.4	1.3									76.3717	-146.7776	6.7	4.0
181.769058																
181.769196																
181.783336																
181.793777																
181.793793	75.6754	-146.6930	10.7	0.8									76.3750	-146.7733	10.4	1.9
181.841278	75.6793	-146.6926	10.5	-0.1									76.3756	-146.7729	10.7	1.8
181.841400																
181.841522																
181.844030	75.6800	-146.6927	10.5	-0.2									76.3773	-146.7718	11.3	1.3
181.849091																
181.858246																
181.865125																
181.865125																
181.865370																
181.914276	75.6816	-146.6929	10.4	-0.4												
181.924347																
181.944336																
181.944336	75.6874	-146.6908	9.2	3.8									76.3824	-146.7706	12.2	0.3
181.970184	75.6892	-146.6868	8.4	5.7									76.3843	-146.7704	12.5	0.3
181.970424	75.6903	-146.6837	7.7	5.8												
181.987411																
182.011673																
182.043777	75.6912	-146.6731	5.5	7.0									76.3914	-146.7687	15.1	1.5
182.061371	75.6919	-146.6690	4.9	7.9												
182.071645	75.6943	-146.6659	4.5	8.4												
182.086502																
182.086502	75.6948	-146.6624	4.2	9.0												
182.118421	75.6957	-146.6529	3.6	11.5												
182.135449	75.6962	-146.6454	3.5	11.5												



DAY	LAT	CAMP CARLEIGH LONG	NIV	FIV	LAT	CAMP REUP LONG	KIV	FIV	LAT	CAMP SNOWBIRD LONG	NIV	FIV	LAT	CAMP BIG HEAR LONG	FIV
188.812622	75.6673	-146.2151	-16.0	15.4					76.3929	-146.1246	-17.0	15.8			
188.812622															
188.822124	75.6661	-146.2110	-15.8	14.4					76.3916	-146.3197	-17.5	14.9			
188.822220									76.3899	-146.3138	-18.0	13.8			
188.831702															
188.834946	75.6646	-146.2055	-15.1	13.2					76.3822	-146.2935	-18.3	9.4			
188.887909															
188.888153	75.6590	-146.1862	-12.0	10.9					76.3809	-146.2908	-18.1	8.6			
188.897476									76.3791	-146.2874	-17.9	7.6			
188.910110	75.6570	-146.1787	-11.6	11.1											
188.910248									76.3723	-146.2760	-14.1	6.7			
188.963074	75.6523	-146.1602	-10.6	11.1											
188.963181															
188.963318															
189.009995	75.6488	-146.1458	-8.5	7.9											
189.009995															
189.044968	75.6467	-146.1192	-7.1	4.4					76.3652	-146.2549	-6.3	4.9			
189.058884					76.6937	-143.9868	-11.2	9.8							
189.058990	75.6460	-146.1175	-6.6	3.6											
189.059113	75.6448	-146.1351	-5.4	3.0					76.3630	-146.2477	-4.9	4.9			
189.083145															
189.083221															
189.111710	75.6438	-146.1120	-4.0	4.1					76.3626	-146.2459	-4.7	5.8			
189.111847									76.3622	-146.2438	-4.7	6.6			
189.122391	75.6415	-146.1106	-3.7	4.8											
189.122482															
189.132599	75.6432	-146.1290	-3.5	5.4					76.3626	-146.2459	-4.7	5.8			
189.132706									76.3622	-146.2438	-4.7	6.6			
189.132721	75.6425	-146.1246	-3.6	6.2											
189.156082															
189.156265	75.6423	-146.1232	-3.8	6.3											
189.163300															
189.185165	75.6417	-146.1191	-4.0	5.6					76.3611	-146.2363	-4.9	8.0			
189.185272									76.3602	-146.2305	-5.6	8.1			
189.185272	75.6413	-146.1172	-4.0	5.0											
189.196625															
189.205780	75.6410	-146.1159	-3.9	4.4					76.3592	-146.2252	-6.4	7.9			
189.205826									76.3575	-146.2171	-7.3	7.3			
189.237976	75.6402	-146.1119	-3.0	4.0					76.3563	-146.2125	-7.4	6.2			
189.238022															
189.258224	75.6398	-146.1091	-1.9	4.8											
189.258255															
189.258362															
189.269943															
189.269989	75.6396	-146.1073	-1.3	5.3					76.3556	-146.2103	-7.4	5.2			
189.270055															
189.278824	75.6395	-146.1016	-0.1	5.9					76.3551	-146.2089	-7.3	4.4			
189.302505									76.3538	-146.2061	-6.9	2.9			
189.302628															
189.302750															
189.312469					76.6757	-143.9417	-6.4	2.2							
189.312469															
189.312576	75.6395	-146.0998	0.1	5.8											
189.311070	75.6395	-146.0965	0.1	5.3											
189.311100															
189.311268															
189.316142	75.6395	-146.0953	-0.1	4.9					76.3524	-146.2038	-5.8	2.3			
189.319276															
189.334394									76.3520	-146.2032	-5.5	2.2			
189.351452	75.6395	-146.0935	-0.3	4.1											
189.351474									76.3515	-146.2023	-5.1	2.0			
189.376646															













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DAY	LAT	CAMP CARLIN LONG	EIV	LAT	CAMP MINE LONG	FOX MIV	EIV	LAT	CAMP SNOWBIRD LONG	HIV	EIV	LAT	CAMP BIG BEAR LONG	HIV	EIV
191-502749	75.6506	-145.2980	-9.6	76.6700	-143.1646	-11.4	16.8	76.5250	-148.9520	-3.6	15.9	76.3569	-145.4499	-7.5	19.0
191-502750	75.6491	-145.2871	-11.0	76.6677	-143.1495	-11.1	17.2	76.5194	-148.8907	-9.9	14.1	76.3552	-145.4334	-8.7	18.8
191-502751	75.6472	-145.2753	-12.1	76.6658	-143.1372	-11.6	16.9	76.5236	-148.9304	-5.0	16.7	76.3537	-145.4205	-9.8	17.9
191-502752	75.6454	-145.2661	-12.4	76.6641	-143.1270	-12.0	16.2	76.5208	-148.9001	-8.4	15.2	76.3522	-145.4100	-10.5	17.1
191-502753	75.6446	-145.2624	-12.3	76.6633	-143.1226	-12.1	15.8	76.5184	-148.8871	-10.4	13.7	76.3515	-145.4054	-10.8	16.7
191-502754	75.6387	-145.2385	-9.5	76.6570	-143.0895	-11.1	14.4	76.5164	-148.8751	-11.7	12.4	76.3473	-145.3815	-11.5	13.9
191-502755	75.6382	-145.2364	-9.0	76.6541	-143.0722	-10.4	14.3	76.5145	-148.8672	-12.3	11.4	76.3456	-145.3710	-11.4	12.7
191-502756	75.6364	-145.2294	-7.6	76.6525	-143.0629	-10.7	13.8	76.5126	-148.8601	-12.8	10.6	76.3408	-145.3525	-11.2	9.6
191-502757	75.6352	-145.2251	-7.1	76.6508	-143.0541	-11.2	13.3	76.5090	-148.8488	-12.4	8.0	76.3390	-145.3467	-11.7	8.4
191-502758	75.6342	-145.2211	-6.9	76.6476	-143.0387	-11.7	12.2	76.5072	-148.8443	-11.4	5.6	76.3384	-145.3448	-12.0	8.0
191-502759	75.6323	-145.2131	-6.3	76.6457	-143.0309	-11.4	10.9	76.5049	-148.8404	-9.5	3.1	76.3357	-145.3380	-11.6	6.5
191-502760	75.6314	-145.2098	-5.6	76.6434	-143.0215	-10.1	9.2	76.5031	-148.8379	-7.6	3.0	76.3340	-145.3341	-10.0	5.6
191-502761	75.6303	-145.2047	-3.9	76.6402	-143.0073	-7.1	9.7	76.5020	-148.8356	-6.1	3.6	76.3321	-145.3293	-6.9	5.2
191-502762	75.6294	-145.1977	-1.4	76.6393	-143.0014	-6.2	10.7	76.5013	-148.8315	-4.8	3.6	76.3310	-145.3243	-4.4	6.6
191-502763	75.6293	-145.1954	-1.1	76.6388	-142.9975	-5.8	11.2	76.5009	-148.8323	-4.0	3.4	76.3304	-145.3193	-3.2	8.1
191-502764	75.6292	-145.1939	-1.0	76.6377	-142.9879	-5.2	10.6	76.5009	-148.8323	-4.0	3.4	76.3300	-145.3146	-2.6	8.6
191-502765	75.6288	-145.1862	-1.3	76.6363	-142.9827	-4.6	10.1	76.6332	-142.9603	-6.3	5.5	76.3298	-145.3115	-2.4	8.7
191-502766	75.6281	-145.1726	-2.3	76.6352	-142.9603	-6.3	5.5								











DAY	LAT	CAMP CARIMU LONG	LEV	LAT	CAMP BLUF LONG	FOX LEV	LAT	CAMP SNOWHRO LONG	FIV	LAT	CAMP BIG BEAR LONG	LEV
193.23629	75.6508	-145.1854	5.5 -6.3	76.6042	-142.7820	1.5 -1.9	76.5347	-148.7551	4.7 -5.0	76.3257	-145.1267	4.6 -4.5
193.23630	75.6514	-145.1882	5.5 -6.6	76.6054	-142.7872	3.7 -2.5	76.5353	-148.7575	5.4 -5.2	76.3267	-145.1308	5.2 -5.6
193.23631	75.6525	-145.1937	5.6 -7.5	76.6057	-142.7886	3.6 -4.2	76.5364	-148.7620	6.4 -5.7	76.3271	-145.1328	5.4 -6.1
193.23632	75.6530	-145.1962	5.7 -7.8	76.6065	-142.7925	4.2 -5.1	76.5369	-148.7639	6.7 -5.9			
193.23633	75.6541	-145.2025	5.7 -8.2	76.6071	-142.7957	4.4 -5.0	76.5383	-148.7690	7.0 -6.1			
193.23634	75.6549	-145.2071	5.6 -7.8	76.6078	-142.7986	4.6 -4.0				76.3290	-145.1417	5.7 -5.8
193.23635	75.6557	-145.2115	5.5 -6.5	76.6082	-142.8000	4.7 -3.0				76.3299	-145.1449	5.5 -4.4
193.23636	75.6562	-145.2137	5.4 -5.3	76.6091	-142.8016	4.9 -1.1	76.5403	-148.7763	6.5 -5.2			
193.23637	75.6572	-145.2169	5.6 -3.3	76.6106	-142.8021	5.2 -0.2	76.5409	-148.7782	6.7 -5.5	76.3304	-145.1465	5.4 -3.3
194.024673	75.6594	-145.2206	5.5 -2.5	76.6111	-142.8022	5.1 -0.5						
194.024674	75.6611	-145.2242	4.4 -2.7	76.6120	-142.8029	4.6 -1.2	76.5439	-48.7852	6.8 -2.7	76.3329	-145.1496	5.2 -1.0
194.024675	75.6617	-145.2257	3.7 -2.2	76.6131	-142.8051	3.4 -2.2	76.5458	-148.7878	6.9 -1.8	76.3334	-145.1501	5.2 -1.2
194.024676	75.6620	-145.2266	3.2 -2.0	76.6135	-142.8061	2.9 -2.3	76.5466	-148.7889	6.9 -1.4	76.3350	-145.1521	4.5 -1.4
194.024677	75.6625	-145.2280	2.2 -2.1	76.6144	-142.8101	1.3 -1.7						
194.024678	75.6627	-145.2292	1.5 -2.4	76.6145	-142.8109	1.2 -1.7	76.5474	-148.7896	4.4 -1.0	76.3356	-145.1529	3.8 -1.3
194.024679	75.6629	-145.2308	1.0 -2.9				76.5478	-148.7901	3.5 -0.9	76.3360	-145.1535	3.2 -1.4
194.024680	75.6630	-145.2321	0.9 -3.2									
194.024681	75.6632	-145.2344	1.0 -3.6				76.5483	-148.7908	2.1 -1.1	76.3367	-145.1557	1.8 -2.2
194.024682	75.6635	-145.2385	1.4 -3.1				76.5485	-148.7915	1.4 -1.4	76.3370	-145.1573	1.3 -2.6
194.024683										76.3371	-145.1584	1.2 -2.7
194.024684												
194.024685										76.3376	-145.1635	1.2 -1.9











DAY	LAT	CAMP CARLINJUN LONG	NIV	EIV	LAT	CAMP BLUFF LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG HEAN LONG	NIV	EIV
196.031281					76.6174	-142.8046	-3.6	-1.5	76.5636	-148.8643	2.5	-1.0	76.3418	-145.1743	-2.4	-2.1
196.031357					76.6171	-142.8053	-3.6	-1.9					76.3415	-145.1753	-2.4	-2.3
196.031976													76.3413	-145.1763	-2.6	-2.5
196.044067	75.6656	-143.2144	-1.5	-6.7	76.6167	-142.8062	-3.7	-2.2	76.5641	-148.8649	1.1	-0.4				
196.044174	75.6654	-143.2169	-2.1	-6.1					76.5642	-148.8650	0.4	-0.7				
196.056656					76.6161	-142.8076	-4.2	-2.4								
196.066778					76.6159	-142.8082	-4.4	-2.5								
196.066822					76.6151	-142.8101	-4.9	-2.7								
196.076019									76.5640	-148.8660	-1.5	-1.3				
196.076126					76.6146	-142.8113	-5.1	-2.8	76.5638	-148.8666	-2.0	-1.4				
196.076233	75.6650	-145.2402	-3.2	-4.7					76.5636	-148.8672	-2.5	-1.3				
196.083328					76.6140	-142.8126	-5.2	-2.9								
196.083420					76.6137	-142.8134	-5.3	-3.0								
196.083420																
196.104370	75.6642	-145.2435	-4.3	-3.0					76.5634	-148.8676	-2.8	-1.3				
196.104446																
196.104599																
196.117630																
196.117706	75.6617	-145.2447	-4.6	-2.7												
196.117706																
196.131012																
196.131134	75.6632	-145.2458	-4.7	-2.6												
196.131177																
196.131206																
196.132882																
196.134450																
196.155982	75.6623	-145.2481	-4.4	-3.4												
196.177643	75.6616	-145.2506	-3.9	-4.4												
196.177750																
196.177750																
196.190659	75.6612	-145.2525	-3.7	-5.0												
196.190796																
196.203856																
196.205994																
196.221862																
196.223969																
196.224030																
196.251572																
196.251602																
196.263779																
196.263779																
196.280196																
196.297119																
196.297226																
196.325851																
196.325867																
196.336914																
196.337112																
196.354416																
196.354523																
196.369781																
196.369884																
196.370071																
196.400665	75.6575	-145.2943	-1.2	-4.5												
196.400711																
196.400772																
196.400909																
196.410155	75.6574	-145.2956	-1.1	-4.0												











DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SNOWHIND LONG	NIV	EIV	LAT	CAMP BIG NEAR LONG	NIV	EIV
199.269913	75.5046	-145.2814	-7.9	-0.2	76.4212	-148.7102	-6.1	-1.9	76.1533	-145.0129	-8.3	-0.2	76.1522	-145.0131	-7.4	-0.2
199.269923					76.4203	-148.7116	-6.0	-2.8								
199.269933	75.5038	-145.2817	-7.3	-0.7	76.4198	-148.7127	-5.8	-3.2								
199.269943	75.5032	-145.2820	-7.0	-1.1	76.4179	-148.7174	-5.7	-2.5								
199.269953					76.4170	-148.7186	-5.7	-1.4								
199.269963	75.5026	-145.2824	-6.8	-1.5	76.4165	-148.7190	-5.6	-0.9								
199.269973	75.5015	-145.2835	-6.5	-2.0	76.4161	-148.7192	-5.4	-0.6								
199.269983					76.4153	-148.7195	-5.0	-0.5								
199.269993	75.4999	-145.2854	-6.1	-1.5	76.4148	-148.7198	-4.6	-0.8								
199.270003	75.4994	-145.2858	-5.9	-1.0	76.4137	-148.7208	-4.0	-0.9								
199.270013					76.4135	-148.7211	-3.9	-0.8								
199.270023	75.4981	-145.2864	-5.4	-0.5	76.4129	-148.7214	-3.8	-0.3								
199.270033	75.4976	-145.2866	-5.2	-0.6	76.4125	-148.7214	-4.0	0.4								
199.270043					76.4113	-148.7200	-5.1	2.0								
199.270053	75.4963	-145.2874	-5.2	-1.1	76.4102	-148.7192	-6.3	2.6								
199.270063	75.4952	-145.2884	-5.8	-1.1	76.4098	-148.7175	-6.8	2.6								
199.270073	75.4945	-145.2888	-6.2	-0.7	76.4094	-148.7168	-7.3	2.7								
199.270083					76.4084	-148.7153	-8.3	2.6								
199.270093	75.4926	-145.2891	-7.4	0.1	76.4070	-148.7137	-9.4	2.5								
199.270103	75.4912	-145.2889	-8.3	0.4	76.4054	-148.7120	-10.6	2.4								
199.270113					76.4045	-148.7112	-11.2	2.3								
199.270123	75.4875	-145.2878	-9.8	1.1	76.4026	-148.7097	-12.3	2.1								
199.270133	75.4850	-145.2865	-10.2	1.4	76.4003	-148.7081	-13.2	2.1								
199.270143	75.4833	-145.2857	-10.6	1.2	76.3982	-148.7067	-13.8	2.0								
199.270153																
199.270163	75.4814	-145.2848	-11.0	1.3												
199.270173	75.4797	-145.2839	-11.2	1.6												
199.270183																
199.270193																

















DAY	LAT	CAMP CARININD LONG	EIV	LAT	CAMP HUB LONG	FOX	EIV	LAT	CAMP SNOWING LONG	MIV	EIV	LAT	CAMP HIG BEAK LONG	NIV	EIV
205-079147	75.1016	-145.5827	-1.0 -0.8									75.6952	-145.1518	-1.0 -1.7	
205-097397												75.6950	-145.1526	-1.2 -1.2	
205-097412												75.6949	-145.1529	-1.3 -0.8	
205-097641															
205-108917	75.1015	-145.5830	-1.2 -0.7												
205-109009	75.1013	-145.5833	-1.4 -0.5												
205-126113															
205-126296	75.1011	-145.5835	-1.5 -0.1												
205-153625	75.1009	-145.5835	-1.3 0.2												
205-153824	75.1008	-145.5833	-1.2 0.5												
205-153839															
205-170700															
205-170807															
205-170944															
205-182007															
205-182159															
205-201187															
205-201431															
205-228317															
205-228546															
205-228577															
205-244251															
205-254949															
205-256963															
205-277993															
205-302791															
205-302797															
205-302798															
205-328049															
205-328110															
205-328572															
205-336575															
205-376891															
205-401627															
205-401718															
205-449844															
205-449860															
205-449982															
205-466858															
205-466919															
205-467102															
205-475769															
205-475876															
205-522507															
205-522549															
205-522598															
205-539871															
205-540146															
205-550629															
205-550690															
205-571396															
205-594742															
205-594803															
205-594910															
205-621170															
205-621246															
205-646301															
205-646332															
205-646408															
205-666779															
205-666799															
205-686962															
205-687668															
205-687759															
205-687805															







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DAY	LAT	CAMP CARIBOU LONG	EIV	LAT	CAMP BLUE FOX LONG	EIV	LAT	CAMP SHORRHO LONG	EIV	LAT	CAMP BIG HEAD LONG	EIV
207.647659												
207.655991												
207.666281												
207.685059												
207.685150												
207.685196												
207.703018												
207.703171												
207.703278												
207.716498												
207.719742												
207.719742												
207.711384												
207.759888												
207.759903												
207.759995												
207.761624												
207.761885												
207.782053												
207.789911												
207.800110												
207.815083												
207.815226												
207.815236												
207.815395												
207.851471												
207.851532												
207.859116												
207.864624												
207.875259												
207.875473												
207.875549												
207.910431												
207.924866												
207.933914												
207.950195												
207.950404												
207.985641												
207.985947												
208.008087												
208.008209												
208.024612												
208.060425												
208.060669												
208.070724												
208.070923												
208.081726												
208.081741												
208.090699												
208.098175												
208.098336												
208.143906												
208.144180												
208.154170												
208.154907												
208.161179												
208.171249												
208.171326												
208.171417												
208.217606												
208.217819												
208.227875												
208.235925												
208.236059												
208.244293												
208.248219												
208.248256												
208.249601												
208.292023												



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DAY	LAT	CAMP CARIBOU LONG	EIV	LAT	CAMP WIDE LONG	FIX NIV	EIV	LAT	CAMP SNOWBIRD LONG	NEV	EIV	LAT	CAMP BIG BEAR LONG	NEV	EIV
209.407990	74.9763	-145.8692	-6.8	75.6144	-142.8709	-5.6	1.0	75.8368	-149.5001	-6.4	-1.5				
209.408051	74.9733	-145.8473	-6.6	75.6145	-142.8703	-5.5	0.9								
209.408214	74.9716	-145.8434	-6.5	75.6171	-142.8692	-5.3	1.4								
209.408333	74.9702	-145.8402	-6.7	75.6160	-142.8679	-5.5	1.4								
209.408447	74.9695	-145.8392	-6.8	75.6139	-142.8662	-5.9	1.0								
209.408561	74.9678	-145.8364	-6.8	75.6130	-142.8656	-5.8	1.1								
209.408675															
209.408789	74.9666	-145.8343	-6.7	75.6120	-142.8648	-5.7	1.4								
209.408903	74.9656	-145.8311	-6.6	75.6098	-142.8618	-5.1	2.4								
209.409017															
209.409131	74.9629	-145.8165	-6.6	75.6094	-142.8609	-4.9	2.5								
209.409245	74.9624	-145.8163	-6.7	75.6099	-142.8599	-4.6	2.7								
209.409359															
209.409473	74.9600	-145.8355	-7.1	75.6078	-142.8572	-4.4	3.1								
209.409587	74.9591	-145.8346	-7.3	75.6072	-142.8554	-4.5	3.8								
209.409701															
209.409815	74.9585	-145.8338	-7.3	75.6069	-142.8543	-4.5	4.4								
209.409929	74.9575	-145.8318	-7.0	75.6063	-142.8515	-4.4	5.4								
209.410043				75.6059	-142.8497	-4.2	6.0								
209.410157	74.9560	-145.8271	-6.1	75.6053	-142.8457	-4.0	6.6								
209.410271				75.6049	-142.8427	-3.9	6.6								
209.410385				75.6045	-142.8403	-3.7	6.6								
209.410499	74.9548	-145.8232	-5.2	75.6040	-142.8364	-3.4	6.8								
209.410613	74.9541	-145.8210	-4.6	75.6033	-142.8296	-2.7	8.3								
209.410727	74.9527	-145.8144	-3.8	75.6030	-142.8262	-2.3	9.3								
209.410841															



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DAY	LAT	CAMP CAMINO LONG	EIV	LAT	CAMP BLUE FOX LONG	EIV	LAT	CAMP SKOWBING LONG	EIV	LAT	CAMP BIG BEAK LONG	EIV
212.020645	74.7240	-145.0545-10.1	8.5	75.3965	-141.9381-10.9	8.8	75.5575	-144.7746-11.4	3.5	75.2758	-144.4023-16.2	11.6
212.020752												
212.021419				75.3953	-141.9358-16.3	8.5				75.2747	-144.3993-16.1	10.8
212.022980							75.5567	-144.7737-11.1	2.9	75.2736	-144.3965-15.9	10.1
212.023139												
212.023376	74.7208	-145.0481-14.8	8.2	75.3933	-141.9313-14.9	8.9				75.2725	-144.3940-15.9	9.6
212.024684										75.2715	-144.3916-15.9	9.3
212.024951										75.2680	-144.3840-15.5	8.3
212.025389	74.7110	-145.0399-11.9	6.8				75.5530	-148.7702-9.4	3.3			
212.025495				75.3891	-141.9200-13.5	9.9				75.2668	-144.3815-15.2	7.9
212.026382										75.2657	-144.3794-14.9	7.5
212.026795	74.7161	-145.0179-11.1	6.2									
212.027251							75.5517	-148.7678-8.6	4.8			
212.027322	74.7146	-145.0150-10.7	5.3				75.5511	-148.7665-8.2	5.5			
212.027588							75.5505	-148.7647-7.8	6.2			
212.027746	74.7138	-145.0145-10.5	4.9									
212.027758												
212.027798	74.7110	-145.0249-9.8	4.2	75.3825	-141.9021-12.8	8.3				75.2636	-144.3754-13.7	6.6
212.027815												
212.027819												
212.027840	74.7102	-145.0276-9.4	4.2	75.3815	-141.8997-12.4	8.0	75.5485	-148.7564-6.9	8.5			
212.027871												
212.027923	74.7096	-145.0265-9.1	4.4	75.3807	-141.8975-11.9	7.9	75.5479	-148.7538-6.9	9.0			
212.027947												
212.027954	74.7090	-145.0254-8.7	4.6	75.3799	-141.8955-11.3	7.9	75.5475	-148.7512-6.7	9.6			
212.027957												
212.027962												
212.027963	74.7082	-145.0237-8.1	5.1									
212.027964												
212.027965												
212.027966												
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212.027999												

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DAY	LAT	CAMP CARTRIDGE LONG	NIV	EIV	LAT	CAMP HUE LONG	FOX NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP HIG BEAR LONG	NIV	EIV
213.45594	74.6275	-143.6791	-9.7	6.5	75.2700	-143.4102	-13.5	8.5								
213.45605																
213.45670	74.6242	-143.6715	-10.0	6.3										75.1501	-143.0982	-14.1
213.45725														75.1527	-143.0847	-16.4
213.45802	74.6235	-143.6699	-9.7	6.5	75.2656	-143.3999	-12.9	8.0								
213.45865																
213.45971	74.6234	-143.6688	-8.9	6.9	75.2647	-143.3977	-12.8	8.1								
213.46002																
213.46065	74.6223	-143.6668	-8.9	6.9	75.2625	-143.3923	-12.9	7.7								
213.46124																
213.46182	74.6191	-143.6562	-7.4	7.1	75.2583	-143.3825	-12.3	7.4						75.1491	-143.0753	-13.7
213.46240														75.1448	-143.0645	-11.2
213.46302	74.6182	-143.6530	-8.1	6.6	75.2558	-143.3765	-11.1	8.4								
213.46360																
213.46408	74.6141	-143.6411	-9.0	6.8	75.2517	-143.3621	-10.0	10.2								
213.46466																
213.46524	74.6136	-143.6402	-8.9	7.0												
213.46582																
213.46640	74.6124	-143.6405	-8.6	7.7	75.2498	-143.3542	-9.8	10.3								
213.46698																
213.46756	74.6089	-143.6086	-8.3	4.9	75.2452	-143.3367	-10.7	9.5								
213.46814																
213.46872	74.6001	-143.6019	-7.7	3.2	75.2438	-143.3319	-11.5	9.5								
213.46930																
213.46988	74.5993	-143.6006	-7.2	3.9												
213.47046																
213.47104	74.5986	-143.5989	-6.6	4.5	75.2279	-143.2868	-12.5	8.7								
213.47162					75.2240	-143.2780	-12.8	4.3								
213.47220	74.5963	-143.5922	-6.5	5.0	75.2231	-143.2771	-13.3	2.7								
213.47278					75.2212	-143.2765	-14.0	-0.6								
213.47336																
213.47394	74.5922	-143.5836	-7.6	3.1	75.2163	-143.2803	-12.3	-2.6								
213.47452																
213.47510	74.5913	-143.5824	-7.3	2.6												
213.47568																
213.47626	74.5902	-143.5810	-6.1	2.0	75.2133	-143.2805	-9.0	2.8								
213.47684																
213.47742	74.5887	-143.5792	-5.0	1.4	75.2110	-143.2744	-7.5	7.1								
213.47800																
213.47858	74.5882	-143.5788	-5.1	1.3												
213.47916																
213.47974	74.5876	-143.5783	-5.6	1.2	75.2094	-143.2687	-7.6	6.4								
213.48032																
213.48090	74.5855	-143.5755	-5.6	3.8	75.2089	-143.2670	-7.8	5.4								
213.48148																
213.48206	74.5849	-143.5738	-5.1	5.3	75.2065	-143.2623	-8.3	3.6								
213.48264																
213.48322	74.5841	-143.5736	-5.1	5.3	75.2042	-143.2580	-7.3	4.5								
213.48380																
213.48438	74.5833	-143.5637	-2.0	1.3	75.2023	-143.2526	-6.2	4.5								
213.48496																
213.48554	74.5830	-143.5636	-1.9	-3.2	75.2010	-143.2496	-6.7	3.3								
213.48612																

DAY	LAT	CAMP CARENDO LONG	NIV	EIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG HEAD LONG	NIV	EIV
214-312424	74.5823	-144.5710	-1.4	-2.7	75.1983	-141.2455	-7.4	2.8	75.0907	-143.7215	-5.2	4.4	75.0907	-143.7215	-5.2	4.4
214-312531	74.5822	-144.5717	-1.3	-1.4	75.1976	-141.2444	-7.4	3.3	75.0903	-143.7200	-5.1	4.1	75.0903	-143.7200	-5.1	4.1
214-312607	74.5821	-144.5719	-1.1	0.0	75.1968	-141.2431	-7.4	3.7	75.0878	-143.7133	-4.6	3.3	75.0878	-143.7133	-4.6	3.3
214-312614	74.5820	-144.5718	-1.1	0.8	75.1898	-141.2255	-6.6	4.3	75.0846	-143.7002	-4.1	6.3	75.0846	-143.7002	-4.1	6.3
214-312618	74.5816	-144.5693	-1.3	2.6	75.1860	-141.2137	-6.3	5.7	75.0826	-143.6886	-5.7	6.8	75.0826	-143.6886	-5.7	6.8
214-312621	74.5815	-144.5685	-1.4	2.6	75.1771	-141.1865	-9.1	6.7	75.0734	-143.6616	-9.5	7.6	75.0734	-143.6616	-9.5	7.6
214-312625	74.5813	-144.5675	-1.5	2.3	75.1719	-141.1713	-9.9	7.3	75.0728	-143.6597	-9.6	8.1	75.0728	-143.6597	-9.6	8.1
214-312633	74.5806	-144.5646	-2.1	1.8	75.1659	-141.1551	-10.5	7.1	75.0714	-143.6547	-9.4	9.6	75.0714	-143.6547	-9.4	9.6
214-312644	74.5802	-144.5632	-2.5	2.1	75.1635	-141.1487	-9.3	6.7	75.0680	-143.6395	-8.3	9.5	75.0680	-143.6395	-8.3	9.5
214-312649	74.5772	-144.5521	-1.3	2.3	75.1606	-141.1405	-8.7	6.3	75.0597	-143.6132	-6.8	6.5	75.0597	-143.6132	-6.8	6.5
214-312651	74.5752	-144.5471	-4.1	4.0	75.1556	-141.1277	-8.3	4.8	75.0561	-143.5987	-6.3	6.0	75.0561	-143.5987	-6.3	6.0
214-312658	74.5749	-144.5461	-4.3	4.8	75.1547	-141.1259	-7.9	4.3	75.0554	-143.5965	-6.0	5.1	75.0554	-143.5965	-6.0	5.1
214-312660	74.5743	-144.5430	-4.7	6.5	75.1514	-141.1190	-6.1	3.8	75.0545	-143.5935	-5.3	4.8	75.0545	-143.5935	-5.3	4.8
214-312661	74.5723	-144.5332	-5.8	5.1	75.1508	-141.1176	-5.8	4.0	75.0531	-143.5870	-4.1	6.3	75.0531	-143.5870	-4.1	6.3
214-312663	74.5689	-144.5289	-5.1	1.5	75.1501	-141.1155	-5.9	4.3	75.0527	-143.5845	-4.0	7.0	75.0527	-143.5845	-4.0	7.0
214-312664	74.5686	-144.5285	-4.7	2.0	75.1435	-141.0942	-6.5	6.2	75.0504	-143.5712	-6.2	5.8	75.0504	-143.5712	-6.2	5.8
214-312665	74.5667	-144.5220	-3.2	4.6	75.1428	-141.0916	-6.4	6.2	75.0499	-143.5696	-7.0	5.0	75.0499	-143.5696	-7.0	5.0
214-312667	74.5665	-144.5205	-3.2	4.9	75.1400	-141.0810	-6.5	6.3	75.0459	-143.5623	-7.0	3.9	75.0459	-143.5623	-7.0	3.9
214-312668	74.5648	-144.5109	-3.8	5.5	75.1385	-141.0742	-6.5	6.2								
214-312669	74.5648	-144.5109	-3.8	5.5	75.1371	-141.0685	-1.2	0.9								
214-312670	74.5648	-144.5109	-3.8	5.5	75.1358	-141.0628	-0.7	0.0								
214-312671	74.5648	-144.5109	-3.8	5.5	75.1345	-141.0571	-0.5	-0.1								
214-312672	74.5648	-144.5109	-3.8	5.5	75.1332	-141.0514	0.2	1.1								
214-312673	74.5648	-144.5109	-3.8	5.5	75.1319	-141.0457	0.2	1.1								
214-312674	74.5648	-144.5109	-3.8	5.5	75.1306	-141.0400	0.2	1.1								
214-312675	74.5648	-144.5109	-3.8	5.5	75.1293	-141.0343	0.2	1.1								
214-312676	74.5648	-144.5109	-3.8	5.5	75.1280	-141.0286	0.2	1.1								
214-312677	74.5648	-144.5109	-3.8	5.5	75.1267	-141.0229	0.2	1.1								
214-312678	74.5648	-144.5109	-3.8	5.5	75.1254	-141.0172	0.2	1.1								
214-312679	74.5648	-144.5109	-3.8	5.5	75.1241	-141.0115	0.2	1.1								
214-312680	74.5648	-144.5109	-3.8	5.5	75.1228	-141.0058	0.2	1.1								
214-312681	74.5648	-144.5109	-3.8	5.5	75.1215	-141.0001	0.2	1.1								
214-312682	74.5648	-144.5109	-3.8	5.5	75.1202	-140.9944	0.2	1.1								
214-312683	74.5648	-144.5109	-3.8	5.5	75.1189	-140.9887	0.2	1.1								
214-312684	74.5648	-144.5109	-3.8	5.5	75.1176	-140.9830	0.2	1.1								
214-312685	74.5648	-144.5109	-3.8	5.5	75.1163	-140.9773	0.2	1.1								
214-312686	74.5648	-144.5109	-3.8	5.5	75.1150	-140.9716	0.2	1.1								
214-312687	74.5648	-144.5109	-3.8	5.5	75.1137	-140.9659	0.2	1.1								
214-312688	74.5648	-144.5109	-3.8	5.5	75.1124	-140.9602	0.2	1.1								
214-312689	74.5648	-144.5109	-3.8	5.5	75.1111	-140.9545	0.2	1.1								
214-312690	74.5648	-144.5109	-3.8	5.5	75.1098	-140.9488	0.2	1.1								
214-312691	74.5648	-144.5109	-3.8	5.5	75.1085	-140.9431	0.2	1.1								
214-312692	74.5648	-144.5109	-3.8	5.5	75.1072	-140.9374	0.2	1.1								
214-312693	74.5648	-144.5109	-3.8	5.5	75.1059	-140.9317	0.2	1.1								
214-312694	74.5648	-144.5109	-3.8	5.5	75.1046	-140.9260	0.2	1.1								
214-312695	74.5648	-144.5109	-3.8	5.5	75.1033	-140.9203	0.2	1.1								
214-312696	74.5648	-144.5109	-3.8	5.5	75.1020	-140.9146	0.2	1.1								
214-312697	74.5648	-144.5109	-3.8	5.5	75.1007	-140.9089	0.2	1.1								
214-312698	74.5648	-144.5109	-3.8	5.5	75.0994	-140.9032	0.2	1.1								
214-312699	74.5648	-144.5109	-3.8	5.5	75.0981	-140.8975	0.2	1.1								
214-312700	74.5648	-144.5109	-3.8	5.5	75.0968	-140.8918	0.2	1.1								
214-312701	74.5648	-144.5109	-3.8	5.5	75.0955	-140.8861	0.2	1.1								
214-312702	74.5648	-144.5109	-3.8	5.5	75.0942	-140.8804	0.2	1.1								
214-312703	74.5648	-144.5109	-3.8	5.5	75.0929	-140.8747	0.2	1.1								
214-312704	74.5648	-144.5109	-3.8	5.5	75.0916	-140.8690	0.2	1.1								
214-312705	74.5648	-144.5109	-3.8	5.5	75.0903	-140.8633	0.2	1.1								
214-312706	74.5648	-144.5109	-3.8	5.5	75.0890	-140.8576	0.2	1.1								
214-312707	74.5648	-144.5109	-3.8	5.5	75.0877	-140.8519	0.2	1.1								
214-312708	74.5648	-144.5109	-3.8	5.5	75.0864	-140.8462	0.2	1.1								
214-312709	74.5648	-144.5109	-3.8	5.5	75.0851	-140.8405	0.2	1.1								
214-312710	74.5648	-144.5109	-3.8	5.5	75.0838	-140.8348	0.2	1.1								
214-312711	74.5648	-144.5109	-3.8	5.5	75.0825	-140.8291	0.2	1.1								
214-312712	74.5648	-144.5109	-3.8	5.5	75.0812	-140.8234	0.2	1.1								
214-312713	74.5648	-144.5109	-3.8	5.5	75.0799	-140.8177	0.2	1.1								
214-312714	74.5648	-144.5109	-3.8	5.5	75.0786	-140.8120	0.2	1.1								
214-312715	74.5648	-144.5109	-3.8	5.5	75.0773	-140.8063	0.2	1.1								
214-312716	74.5648	-144.5109	-3.8	5.5	75.0760	-140.8006	0.2	1.1								
214-312717	74.5648	-144.5109	-3.8	5.5	75.0747	-140.7949	0.2	1.1								
214-312718	74.5648	-144.5109	-3.8	5.5	75.0734	-140.7892	0.2	1.1								
214-312719	74.5648	-144.5109	-3.8	5.5	75.0721	-140.7835	0.2	1.1								
214-312720	74.5648	-144.5109	-3.8	5.5	75.0708	-140.7778	0.2	1.1								
214-312721	74.5648	-144.5109	-3.8	5.5	75.0695	-140.7721	0.2	1.1								
214-312722	74.5648	-144.5109	-3.8	5.5	75.0682	-140.7664	0.2	1.1								
214-312723	74.5648	-144.5109	-3.8	5.5	75.0669	-140.7607	0.2	1.1								
214-312724	74.5648	-144.5109	-3.8	5.5	75.0656	-140.7550	0.2	1.1								
214-312725	74.5648	-144.5109	-3.8	5.5	75.0643	-140.7493	0.2	1.1								
214-312726	74.5648	-144.5109	-3.8	5.5	75.0630	-140.7436	0.2	1.1								
214-312727	74.5648	-144.5109	-3.8	5.5	75.0617	-140.7379	0.2	1.1								
214-312728	74.5648	-144.5109	-3.8	5.5	75.0604	-140.7322	0.2	1.1								
214-312729	74.5648	-144.5109	-3.8	5.5	75.0591	-140.7265	0.2	1.1								
214-312730	74.5648	-144.5109	-3.8	5.5	75.0578	-140.7208	0.2	1.1								
214-312731	74.5648	-144.5109	-3.8	5.5	75.0565	-140.7151	0.2	1.1								
214-312732	74.5648	-144.5109	-3.8	5.5	75.0552	-140.7094	0.2	1.1								
214-312733	74.5648	-144.5109	-3.8	5.5	75.0539	-140.7037	0.2	1.1								
214-312734	74.5648	-144.5109	-3.8	5.5	75.052											





UAY	CAMP CARIBOU LONG	LAT	EIV	CAMP MIDE FOX LONG	LAT	EIV	CAMP SNOWBIRD LONG	LAT	CAMP BIG NEAR LONG	LAT	EIV
216.081803	74.5524	-144.4245	-2.1	75.1043	-140.8737	-10.4	75.0220	-143.3843	-5.1	8.0	
216.081940				75.1032	-140.8698	-9.5					
216.096848	74.5522	-144.4223	-2.1			4.9					
216.096924							75.3693	-147.8646	2.3	9.7	
216.101137							75.3694	-147.8619	2.2	9.6	
216.106461											
216.107681	74.5520	-144.4208	-2.2	75.1014	-140.8637	-8.6	75.0192	-143.3677	-3.7	7.5	
216.122375	74.5512	-144.4150	-1.9			7.0					
216.156784				75.0992	-140.8562	-7.7					
216.166921	74.5510	-144.4136	-1.8	75.0984	-140.8532	-7.2					
216.170410			3.5			7.5					
216.174230	74.5509	-144.4127	-1.7								
216.195209			3.4								
216.211380											
216.211430	74.5504	-144.4077	-0.1	75.0936	-140.8392	-4.5					
216.244614			3.4	75.0931	-140.8364	-3.9	75.3730	-147.8149	4.2	5.3	
216.244659						6.6					
216.305374											
216.305511											
216.305557											
216.305573	74.5510	-144.3992	1.2	75.0938	-140.8248	-2.2					
216.319305	74.5512	-144.3972	1.2			7.2					
216.319376			4.9								
216.319397			5.2								
216.319504											
216.378952				75.0935	-140.8217	-1.9	75.3735	-147.8127	4.8	5.0	
216.379105	74.5519	-144.3902	2.0	75.0929	-140.8076	-0.6	75.3744	-147.8089	5.5	5.6	
216.394699	74.5521	-144.3899	2.4			-0.1					
216.404913			-0.1	75.0929	-140.8047	-0.7					
216.415497				75.0928	-140.8016	-0.1					
216.415619											
216.415634	74.5526	-144.3902	2.8	75.0928	-140.7958	0.0	75.3778	-147.7920	6.2	9.7	
216.415878			-0.5								
216.451813											
216.451965											
216.452011	74.5534	-144.3898	3.2			1.6	75.3796	-147.7807	7.0	10.4	
216.470352											
216.470505	74.5539	-144.3885	3.5			3.0	75.3807	-147.7749	8.1	10.2	
216.470566											
216.470734				75.0928	-140.7923	0.3					
216.488510	74.5544	-144.3867	3.8	75.0929	-140.7887	0.5					
216.488525			4.1								
216.488571											
216.488724				75.0931	-140.7805	0.5	75.3819	-147.7692	9.3	10.0	
216.524139											
216.524277											
216.524353	74.5555	-144.3816	3.4			5.5	75.3847	-147.7581	9.7	10.8	
216.524399											
216.546387				75.0931	-140.7748	0.7	75.3873	-147.7440	8.7	14.4	
216.546494											
216.562149	74.5566	-144.3736	3.1			6.9					
216.569992											
216.570190				75.0933	-140.7682	1.5					
216.566176				75.0937	-140.7604	2.0					
216.596315	74.5572	-144.3679	3.6			8.0	75.3896	-147.7268	8.0	17.6	
216.596542											
216.635986	74.5585	-144.3580	4.4			7.9	75.3919	-147.7058	7.6	16.2	
216.636093											
216.636139				75.0943	-140.7483	1.5					
216.636167				75.0946	-140.7400	1.2					
216.668167							75.0241	-143.2682	2.8	10.2	

DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP BLUE LONG	FOX	NIV	EIV	LAT	CAMP SNOWHORN LONG	NIV	EIV	LAT	CAMP BIG HEAR LONG	NIV	EIV
216.600304	74.5597	-144.3516	5.5	7.3										75.0249	-143.2588	3.0	9.7
216.608304														75.0257	-143.2493	4.2	10.5
216.668518																	
216.700256																	
216.700378	74.5616	-144.3423	5.8	8.0	75.0950	-140.7316	2.1	9.6		75.3938	-147.6911	7.4	13.9				
216.710678																	
216.710785																	
216.720978																	
216.721008	74.5621	-144.3399	5.5	8.4	75.0954	-140.7250	2.9	11.7		75.3963	-147.6734	7.7	14.1				
216.721008																	
216.740433					75.0958	-140.7175	3.2	14.0						75.0261	-143.2459	4.8	10.8
216.740479														75.0265	-143.2426	5.3	11.2
216.740494	74.5629	-144.3348	5.1	9.6													
216.740723																	
216.774455																	
216.774597																	
216.785828					75.0967	-140.7017	3.5	16.5		75.3981	-147.6596	8.2	16.2				
216.844620					75.0971	-140.6959	3.6	16.6									
216.861221																	
216.861450	74.5685	-144.2948	9.2	10.6													
216.869507																	
216.869514	74.5691	-144.2924	9.9	10.1													
216.917679																	
216.917770	74.5734	-144.2782	12.2	11.6													
216.917847																	
216.918544																	
216.918549																	
216.943039	74.5757	-144.2686	11.7	14.9													
216.960130																	
216.960268																	
216.960565																	
216.990462	74.5797	-144.2447	9.6	19.2													
216.990860																	
217.011520																	
217.011719																	
217.011745	74.5812	-144.2328	9.0	19.6													
217.014505																	
217.014526	74.5828	-144.2200	9.2	18.8													
217.014536																	
217.014637																	
217.021805					75.1112	-140.5648	12.8	18.7									
217.061359	74.5848	-144.2049	8.3	17.4													
217.061629																	
217.062812																	
217.085861																	
217.086060	74.5861	-144.1938	6.2	16.7													
217.109238																	
217.109375	74.5870	-144.1826	4.2	16.4													
217.109451																	
217.136902	74.5878	-144.1696	7.6	16.4													
217.136917																	
217.136932																	
217.137146																	
217.139515																	
217.159622					75.1212	-140.4836	3.1	26.0									
217.183960																	
217.184219	74.5886	-144.1479	2.9	14.5													
217.184372																	
217.210953					75.1217	-140.4644	3.3	25.1									
217.212635																	
217.232742	74.5899	-144.1297	2.9	11.9													
217.232788																	
217.258438																	
217.258667																	
217.258698	74.5904	-144.1209	2.2	11.6													
217.285385																	
217.285385																	









DAY	LAT	CAMP CARIBOU LONG	MIV	EIV	LAT	CAMP MINE LONG	MIV	EIV	LAT	CAMP SNOWHIRE LONG	MIV	EIV	LAT	CAMP HIG LONG	MIV	EIV
220.506195					75.0671	-139.8600	4.0	3.4	75.1509	-146.8526	2.1	4.7				
220.506277									75.1518	-146.8432	2.7	8.5	74.9795	-142.4671	1.4	4.6
220.506313					75.0640	-139.8520	6.3	6.2								
220.506350					75.0644	-139.8514	6.7	6.5								
220.506387									75.1531	-146.8188	1.8	11.7	74.9801	-142.4516	0.5	7.5
220.506424					75.0738	-139.8337	7.3	9.4								
220.506461					75.0749	-139.8278	6.6	10.4	75.1535	-146.8081	1.6	12.7	74.9804	-142.4325	0.9	9.4
220.506498									75.1543	-146.7837	2.7	15.7	74.9804	-142.4325	0.9	9.4
220.506535					75.0771	-139.8077	3.5	13.8								
220.506572									75.1548	-146.7742	3.5	16.3	74.9806	-142.4269	1.0	10.3
220.506609					75.0776	-139.7995	2.0	15.0								
220.506646					75.0777	-139.7805	-0.4	14.9	75.1562	-146.7525	5.5	18.0	74.9809	-142.4123	1.5	13.6
220.506683									75.1569	-146.7444	6.3	18.8				
220.506720					75.0777	-139.7740	-0.8	14.0								
220.506757									75.1579	-146.7335	7.3	20.2	74.9811	-142.4061	2.0	14.8
220.506794					75.0777	-139.7432	2.2	15.9	75.1615	-146.6920	9.0	29.2				
220.506831					75.0796	-139.7154	6.1	13.8	75.1653	-146.6349	7.3	33.8				
220.506868					75.0811	-139.7044	4.8	13.9								
220.506905									75.1666	-146.6004	1.0	34.8	74.9872	-142.2689	2.7	29.7
220.506942																
221.006577	74.5086	-141.4882	4.3	42.8												
221.006614					75.0831	-139.6811	5.0	19.9	75.1558	-146.4714	-20.5	33.5	74.9879	-142.1948	-0.9	38.2
221.006651					74.5089	-141.4541	12.4	45.4								
221.006688					74.5042	-141.3385	-18.9	45.4	75.1504	-146.4424	-25.3	28.2	74.9871	-142.1590	-7.0	40.7
221.006725									75.1505	-146.4107	-10.7	18.7				
221.006762									75.1582	-146.4054	-10.8	16.2	74.9802	-142.0965	-25.4	34.8
221.006799																
221.006836									75.1635	-146.3974	-11.0	11.2	74.9761	-142.0780	-31.2	30.9
221.006873									75.1629	-146.3880	-27.5	4.0	74.9638	-142.0412	-33.8	23.9
221.006910																
221.006947									75.1674	-146.3853	-22.7	2.3	74.9569	-142.0236	-30.6	17.8
221.006984									75.1609	-146.3826	-13.4	2.9				
221.007021									75.1698	-146.3814	-10.9	4.0	74.9440	-142.0074	-27.6	2.4
221.007058									75.1686	-146.3790	-7.1	5.5				
221.007095																
221.007132					75.0589	-139.3952	-36.1	8.6	75.1678	-146.3639	2.4	12.8	74.9303	-142.0125	-17.3	-4.4
221.007169									75.1683	-146.3562	4.3	15.9	74.9282	-142.0148	-12.6	-1.9
221.007206																
221.007243					75.0414	-139.3852	-22.6	-1.4	75.1680	-146.3290	4.5	25.8	74.9258	-142.0176	0.4	1.3
221.007280									75.1684	-146.3204	3.6	28.5				
221.007317					75.0345	-139.3929	-10.1	-6.0								
221.007354									75.1688	-146.3002	1.7	33.3	74.9262	-142.0157	4.5	4.7
221.007391																







DAY	LAT	CAMP COORDINATE	FOV	LAT	CAMP GROUP	FOV	LAT	CAMP SHOOTING	FOV	LAT	CAMP HIGH	FOV
222.018004	74.4091	-142.5522-10.1	17.2	74.9576	-138.8718	-1.7	74.9570	-145.8492	-1.0	74.8107	-141.5055-10.3	20.6
222.018005	74.4075	-142.5522-12.0	16.3	74.9586	-138.8405	-4.4	74.9586	-145.8496-25.3	10.0	74.8087	-141.4928-14.0	21.0
222.018006	74.4054	-142.5512-13.9	15.5	74.9586	-138.8405	-4.4	74.9586	-145.8496-25.3	10.0	74.8087	-141.4928-14.0	21.0
222.018007												
222.018008												
222.018009												
222.018010												
222.018011												
222.018012												
222.018013												
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222.018100												



DAY	LAT	CAMP CARIBBEAN LONG	NIV	EIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG BEAR LONG	NIV	EIV
223.704193																
223.704361																
223.704391	74.2129	-142.1691	-12.1	18.9	74.8994	-138.5410	0.3	19.7	75.0380	-145.6469	-15.0	24.6	74.7320	-141.2681	-8.5	26.4
223.739151	74.2091	-142.1493	-15.4	20.1	74.8998	-138.5181	-4.1	23.4	75.0334	-145.6207	-9.4	23.8	74.7312	-141.2595	-10.1	25.5
223.739243					74.8981	-138.5056	-6.4	23.8								
223.745117																
223.746169																
223.757155																
223.757446																
223.757462	74.2068	-142.1394	-16.9	18.0					75.0308	-145.6088	-19.4	19.8				
223.757553					74.8937	-138.4657	-13.2	22.8	75.0219	-145.5865	-19.7	7.3				
223.814590	74.1989	-142.1158	-17.4	11.8	74.8919	-138.4551	-15.0	22.3								
223.814789																
223.814972																
223.830856	74.1967	-142.1107	-16.7	10.7	74.8837	-138.4193	-19.7	17.4	75.0194	-145.5835	-19.1	5.1				
223.831070					74.8816	-138.4128	-20.3	15.4	75.0160	-145.5805	-18.0	4.2				
223.831070									75.0115	-145.5751	-13.8	6.0				
223.854248	74.1937	-142.1041	-16.4	9.5												
223.854416																
223.890030																
223.890411																
223.904114	74.1875	-142.2925	-15.2	6.6	74.8780	-138.4041	-21.1	11.0	75.0101	-145.5724	-11.3	6.7				
223.904251																
223.925964									75.0085	-145.5680	-7.4	6.8	74.7078	-141.1817	-19.9	3.8
223.926270													74.7024	-141.1794	-16.3	1.8
223.928162									75.0072	-145.5602	-1.7	7.0				
223.965149																
223.965312																
223.965393	74.1815	-142.2843	-9.1	3.5	74.8717	-138.3951	-18.7	5.9	75.0071	-145.5576	-0.4	7.5				
223.965393									75.0071	-145.5560	0.4	7.8				
223.977173																
223.984573	74.1803	-142.2825	-6.5	2.9												
223.984634																
224.039719									75.0082	-145.5399	3.6	12.7				
224.039912	74.1789	-142.2771	-0.6	5.9												
224.049815					74.8636	-138.3822	-6.3	4.9								
224.049911	74.1769	-142.2752	0.1	7.4												
224.050171																
224.057438									75.0085	-145.5357	3.6	14.2	74.6960	-141.1712	-3.6	4.4
224.071793									75.0087	-145.5323	3.5	15.1				
224.072144					74.8627	-138.3780	-3.4	4.9								
224.077312									75.0090	-145.5256	3.1	16.7	74.6956	-141.1677	-0.3	4.3
224.113510					74.8623	-138.3719	0.2	7.3					74.6959	-141.1629	1.8	5.3
224.113602																
224.113617	74.1794	-142.2550	0.6	13.9					75.0096	-145.5030	-0.4	19.5				
224.113706																
224.123291					74.8623	-138.3697	0.7	8.5								
224.130569					74.8624	-138.3678	1.1	6.4								
224.130707																
224.130768	74.1794	-142.2482	-0.5	14.7	74.8625	-138.3634	1.8	11.2	75.0094	-145.4927	-2.4	20.4				
224.130920																
224.144882																
224.144943	74.1793	-142.2421	-1.5	15.6					75.0090	-145.4839	-3.7	21.3				
224.145187									75.0088	-145.4795	-4.1	21.8				
224.151917																
224.152176					74.8633	-138.3464	3.0	16.4								
224.186661	74.1784	-142.2220	-4.0	18.3												
224.186935																
224.197357	74.1772	-142.2050	-5.6	19.8	74.8641	-138.3291	2.7	20.7	75.0088	-145.4336	-8.4	23.3				
224.218414									75.0050	-145.4282	-9.0	22.9				
224.218460																
224.218658																
224.226486																
224.226669																
224.226746	74.1768	-142.2003	-6.1	20.0	74.8642	-138.3239	2.5	22.0								
224.226746					74.8645	-138.3008	-1.5	25.3								
224.259190																



DAY	LAT	CAMP CARIBOU LONG	EIV	LAT	CAMP HIG. FOX LONG	EIV	LAT	CAMP SHUMIHU LONG	EIV	LAT	CAMP HIG. BEAR LONG	EIV
224.715062	74.1515	-142.0474	-1.9 13.9	74.8415	-138.1070	-1.7 19.5	74.9881	-145.2137	-1.5 18.2	74.6766	-140.9496	3.2 15.2
224.715063	74.1515	-142.0474	-1.9 13.9	74.8415	-138.1070	-1.7 19.5	74.9880	-145.2087	-2.2 18.3			
224.715106	74.1514	-142.0435	-2.5 14.5				74.9872	-145.1918	-4.0 18.2			
224.715121	74.1525	-142.0403	-4.1 15.6	74.8406	-138.0828	-3.8 20.3	74.9869	-145.1867	-4.4 17.9	74.6774	-140.9241	0.6 19.6
224.715174	74.1522	-142.0261	-4.4 15.6	74.8403	-138.0773	-4.4 20.3						
224.715177	74.1522	-142.0261	-4.4 15.6	74.8399	-138.0700	-5.4 20.1	74.9865	-145.1801	-5.0 17.1	74.6774	-140.9141	-0.2 20.9
224.715178	74.1514	-142.0165	-5.4 14.4	74.8394	-138.0639	-6.5 19.8						
224.715179	74.1514	-142.0165	-5.4 14.4	74.8388	-138.0577	-7.6 19.4	74.9860	-145.1750	-5.6 16.1			
224.715180	74.1509	-142.0121	-6.1 13.2				74.9855	-145.1701	-6.3 14.9			
224.715181	74.1492	-142.0019	-6.9 9.2	74.8365	-138.0396	-9.7 17.9	74.9839	-145.1573	-6.5 11.9			
224.715182	74.1477	-141.9958	-6.3 5.3	74.8359	-138.0350	-9.8 17.4	74.9834	-145.1542	-6.0 11.3			
224.715183	74.1459	-141.9918	-3.3 1.7	74.8342	-138.0249	-10.3 14.9	74.9825	-145.1476	-5.1 9.7	74.6756	-140.8681	-6.3 15.4
224.715184	74.1454	-141.9906	-0.2 0.3	74.8333	-138.0204	-10.5 13.1	74.9821	-145.1445	-4.6 8.9			
224.715185	74.1454	-141.9906	-0.2 0.3	74.8306	-138.0098	-9.1 8.4	74.9811	-145.1366	-2.9 7.0	74.6729	-140.8529	-8.5 8.5
224.715186	74.1459	-141.9918	-3.3 1.7				74.9807	-145.1319	-1.4 5.8	74.6712	-140.8479	-8.5 5.4
224.715187	74.1454	-141.9906	-0.2 0.3				74.9806	-145.1297	-0.5 4.7			
224.715188	74.1459	-141.9918	-3.3 1.7							74.6686	-140.8441	-1.4 0.3
224.715189	74.1454	-141.9906	-0.2 0.3									
224.715190	74.1459	-141.9918	-3.3 1.7									
224.715191	74.1454	-141.9906	-0.2 0.3									
224.715192	74.1459	-141.9918	-3.3 1.7									
224.715193	74.1454	-141.9906	-0.2 0.3									
224.715194	74.1459	-141.9918	-3.3 1.7									
224.715195	74.1454	-141.9906	-0.2 0.3									
224.715196	74.1459	-141.9918	-3.3 1.7									
224.715197	74.1454	-141.9906	-0.2 0.3									
224.715198	74.1459	-141.9918	-3.3 1.7									
224.715199	74.1454	-141.9906	-0.2 0.3									
224.715200	74.1459	-141.9918	-3.3 1.7									
224.715201	74.1454	-141.9906	-0.2 0.3									
224.715202	74.1459	-141.9918	-3.3 1.7									
224.715203	74.1454	-141.9906	-0.2 0.3									
224.715204	74.1459	-141.9918	-3.3 1.7									
224.715205	74.1454	-141.9906	-0.2 0.3									
224.715206	74.1459	-141.9918	-3.3 1.7									
224.715207	74.1454	-141.9906	-0.2 0.3									
224.715208	74.1459	-141.9918	-3.3 1.7									
224.715209	74.1454	-141.9906	-0.2 0.3									
224.715210	74.1459	-141.9918	-3.3 1.7									
224.715211	74.1454	-141.9906	-0.2 0.3									
224.715212	74.1459	-141.9918	-3.3 1.7									
224.715213	74.1454	-141.9906	-0.2 0.3									
224.715214	74.1459	-141.9918	-3.3 1.7									
224.715215	74.1454	-141.9906	-0.2 0.3									
224.715216	74.1459	-141.9918	-3.3 1.7									
224.715217	74.1454	-141.9906	-0.2 0.3									
224.715218	74.1459	-141.9918	-3.3 1.7									
224.715219	74.1454	-141.9906	-0.2 0.3									
224.715220	74.1459	-141.9918	-3.3 1.7									
224.715221	74.1454	-141.9906	-0.2 0.3									
224.715222	74.1459	-141.9918	-3.3 1.7									
224.715223	74.1454	-141.9906	-0.2 0.3									
224.715224	74.1459	-141.9918	-3.3 1.7									
224.715225	74.1454	-141.9906	-0.2 0.3									
224.715226	74.1459	-141.9918	-3.3 1.7									
224.715227	74.1454	-141.9906	-0.2 0.3									
224.715228	74.1459	-141.9918	-3.3 1.7									
224.715229	74.1454	-141.9906	-0.2 0.3									
224.715230	74.1459	-141.9918	-3.3 1.7									
224.715231	74.1454	-141.9906	-0.2 0.3									
224.715232	74.1459	-141.9918	-3.3 1.7									
224.715233	74.1454	-141.9906	-0.2 0.3									
224.715234	74.1459	-141.9918	-3.3 1.7									
224.715235	74.1454	-141.9906	-0.2 0.3									
224.715236	74.1459	-141.9918	-3.3 1.7									
224.715237	74.1454	-141.9906	-0.2 0.3									
224.715238	74.1459	-141.9918	-3.3 1.7									
224.715239	74.1454	-141.9906	-0.2 0.3									
224.715240	74.1459	-141.9918	-3.3 1.7									
224.715241	74.1454	-141.9906	-0.2 0.3									
224.715242	74.1459	-141.9918	-3.3 1.7									
224.715243	74.1454	-141.9906	-0.2 0.3									
224.715244	74.1459	-141.9918	-3.3 1.7									
224.715245	74.1454	-141.9906	-0.2 0.3									
224.715246	74.1459	-141.9918	-3.3 1.7									
224.715247	74.1454	-141.9906	-0.2 0.3									
224.715248	74.1459	-141.9918	-3.3 1.7									
224.715249	74.1454	-141.9906	-0.2 0.3									
224.715250	74.1459	-141.9918	-3.3 1.7									
224.715251	74.1454	-141.9906	-0.2 0.3									
224.715252	74.1459	-141.9918	-3.3 1.7									
224.715253	74.1454	-141.9906	-0.2 0.3									
224.715254	74.1459	-141.9918	-3.3 1.7									
224.715255	74.1454	-141.9906	-0.2 0.3									
224.715256	74.1459	-141.9918	-3.3 1.7									
224.715257	74.1454	-141.9906	-0.2 0.3									
224.715258	74.1459	-141.9918	-3.3 1.7									
224.715259	74.1454	-141.9906	-0.2 0.3									
224.715260	74.1459	-141.9918	-3.3 1.7									
224.715261	74.1454	-141.9906	-0.2 0.3									
224.715262	74.1459	-141.9918	-3.3 1.7									
224.715263	74.1454	-141.9906	-0.2 0.3									
224.715264	74.1459	-141.9918	-3.3 1.7									
224.715265	74.1454	-141.9906	-0.2 0.3									
224.715266	74.1459	-141.9918	-3.3 1.7									
224.715267	74.1454	-141.9906	-0.2 0.3									
224.715268	74.1459	-141.9918	-3.3 1.7									
224.715269	74.1454	-141.9906	-0.2 0.3									
224.715270	74.1459	-141.9918	-3.3 1.7									
224.715271	74.1454	-141.9906	-0.2 0.3									
224.715272	74.1459	-141.9918	-3.3 1.7									
224.715273	74.1454	-141.9906	-0.2 0.3									
224.715274	74.1459	-141.9918	-3.3 1.7									
224.715275	74.1454	-141.9906	-0.2 0.3									
224.715276	74.1459	-141.9918	-3.3 1.7									
224.715277	74.1454	-141.9906	-0.2 0.3									
224.715278	74.1459	-141.9918	-3.3 1.7									
224.715279	74.1454	-141.9906	-0.2 0.3									
224.715280	74.1459	-141.9918	-3.3 1.7									
224.715281	74.1454	-141.9906	-0.2 0.3									
224.715282	74.1459	-141.9918	-3.3 1.7									
224.715283	74.1454	-141.9906	-0.2 0.3									
224.715284	74.1459	-141.9918	-3.3 1.7									
224.715285	74.1454	-141.9906	-0.2 0.3									
224.715286	74.1459	-141.9918	-3.3 1.7									
224.715287	74.1454	-141.9906	-0.2 0.3									
224.715288	74.1459	-141.9918	-3.3 1.7									
224.715289	74.1454	-141.9906	-0.2 0.3									
224.715290	74.1459	-141.9918	-3.3 1.7									
224.715291	74.1454	-141.9906	-0.2 0.3									
224.715292	74.1459	-141.9918	-3.3 1.7									
224.715293	74.1454	-141.9906	-0.2 0.3									
224.715294	74.1459	-141.9										

DAY	LAT	CAMP CARLEIGH LONG	NIV	EIV	LAT	CAMP HIDE LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG HORN LONG	NIV	EIV
225-230022	74.8382	-137.9350	9.7	15.3	74.8382	-137.9350	9.7	15.3	75.0076	-145.0672	16.4	9.0	74.6856	-140.8275	14.3	9.5
225-230023	74.8394	-137.9282	9.0	14.3	74.8394	-137.9282	9.0	14.3	75.0129	-145.0586	16.4	5.5	74.6868	-140.8245	14.0	10.1
225-230024	74.8421	-137.9094	5.9	14.5	74.8421	-137.9094	5.9	14.5	75.0153	-145.0560	16.3	3.9				
225-230025	74.8428	-137.9021	4.5	15.7	74.8428	-137.9021	4.5	15.7	75.0171	-145.0547	16.3	1.9				
225-230026	74.8439	-137.8795	1.4	12.8	74.8439	-137.8795	1.4	12.8	75.0225	-145.0554	16.2	-2.4	74.6973	-140.7876	7.8	7.9
225-230027	74.8441	-137.8726	1.4	8.6	74.8441	-137.8726	1.4	8.6	75.0235	-145.0559	20.2	-2.8				
225-230028	74.8453	-137.8659	6.0	1.4	74.8453	-137.8659	6.0	1.4	75.0259	-145.0572	22.4	-3.3	74.6988	-140.7826	7.0	4.8
225-230029	74.8469	-137.8655	10.1	-0.3	74.8469	-137.8655	10.1	-0.3	75.0281	-145.0584	24.5	-3.2				
225-230030	74.8476	-137.8656	11.4	-0.6	74.8476	-137.8656	11.4	-0.6	75.0296	-145.0591	25.9	-3.0	74.7012	-140.7794	9.4	1.1
225-230031	74.8486	-137.8659	13.2	-0.9	74.8486	-137.8659	13.2	-0.9	75.0367	-145.0600	31.1	2.5				
225-230032	74.8521	-137.8663	17.8	0.9	74.8521	-137.8663	17.8	0.9	75.0386	-145.0591	32.2	4.7	74.7033	-140.7791	12.0	0.0
225-230033	74.8535	-137.8659	19.1	2.1	74.8535	-137.8659	19.1	2.1	75.0428	-145.0557	33.2	9.3				
225-230034	74.8563	-137.8641	21.5	4.4	74.8563	-137.8641	21.5	4.4	75.0452	-145.0528	33.1	11.6	74.7041	-140.7793	12.9	-0.2
225-230035	74.8597	-137.8631	23.7	6.1	74.8597	-137.8631	23.7	6.1	75.0549	-145.0326	27.9	22.9				
225-230036	74.8651	-137.8556	26.1	7.3	74.8651	-137.8556	26.1	7.3	75.0631	-144.9922	18.1	34.4	74.7095	-140.7790	14.4	1.1
225-230037	74.8672	-137.8533	26.9	7.9	74.8672	-137.8533	26.9	7.9	75.0673	-144.9518	9.9	35.2				
225-230038	74.8711	-137.8491	28.0	8.5	74.8711	-137.8491	28.0	8.5	75.0651	-144.8415	-9.4	17.1				
225-230039	74.8814	-137.8343	29.0	13.9	74.8814	-137.8343	29.0	13.9	75.0642	-144.8357	-9.9	15.3				
225-230040	74.8840	-137.8293	28.9	15.9	74.8840	-137.8293	28.9	15.9								
225-230041	74.8875	-137.8212	28.2	18.5	74.8875	-137.8212	28.2	18.5								
225-230042	74.8920	-137.8087	26.5	21.2	74.8920	-137.8087	26.5	21.2								
225-230043	74.8973	-137.7932	23.5	23.0	74.8973	-137.7932	23.5	23.0								
225-230044	74.8994	-137.7830	22.0	27.6	74.8994	-137.7830	22.0	27.6								
225-230045	74.9014	-137.7739	19.9	24.6	74.9014	-137.7739	19.9	24.6								



DAY	LAT	CAMP CARIBOU LONG	EIV	LAT	CAMP BLUE FOX LONG	EIV	LAT	CAMP SNOWBIRD LONG	EIV	LAT	CAMP HIG BEAR LONG	EIV
225.761871												
225.764637												
225.812073												
225.812241	74.2141	-141.8123	-2.5 21.9	74.9046	-137.7565	14.7 27.1	75.0632	-144.8300	-10.5 13.2			
225.812354							75.0591	-144.8142	-9.1 9.3			
225.823114				74.9070	-137.7331	7.9 29.1	75.0583	-144.8109	-8.0 9.5			
225.824154	74.2139	-141.8248	-2.7 22.4				75.0573	-144.8053	-6.5 10.5			
225.842006	74.2114	-141.8129	-1.9 22.5				75.0565	-144.8000	-5.6 11.9			
225.854516	74.2129	-141.8031	-5.4 21.4				75.0554	-144.7847	-4.1 14.0			
225.854547							75.0551	-144.7839	-3.4 14.5			
225.897347							75.0547	-144.7760	-2.8 14.6			
225.908173							75.0545	-144.7696	-1.6 14.3			
225.917672							75.0543	-144.7556	0.8 17.3			
225.923140												
225.962759												
225.962830	74.2042	-141.7524	-12.7 14.5	74.9015	-137.6104	-12.8 23.7	75.0545	-144.7499	2.0 19.5			
225.972931												
226.004471												
226.037252	74.1970	-141.7208	-12.2 17.1	74.8971	-137.5845	-14.7 17.3						
226.046249				74.8923	-137.5678	-13.6 10.8	75.0561	-144.6907	0.0 33.8			
226.046418												
226.046524	74.1961	-141.7162	-12.3 17.6	74.8913	-137.5647	-12.6 9.9						
226.056396	74.1944	-141.7074	-12.8 17.8	74.8894	-137.5590	-10.8 4.8						
226.064011												
226.077347	74.1930	-141.7008	-13.6 16.6				75.0552	-144.6377	-7.6 36.0			
226.077515							75.0521	-144.6227	-15.6 34.4			
226.077759												
226.110447				74.8863	-137.5461	-4.2 9.6						
226.119217	74.1882	-141.6837	-15.2 12.4				75.0510	-144.6139	-17.0 33.7			
226.119476				74.8856	-137.5449	-7.7 10.3	75.0493	-144.6015	-18.8 32.8			
226.129553												
226.132095												
226.132109	74.1867	-141.6794	-15.2 11.2									
226.150543				74.8845	-137.5362	-6.8 11.8						
226.150604	74.1846	-141.6740	-15.2 9.8				75.0463	-144.5937	-21.3 30.8			
226.150818				74.8829	-137.5251	-4.6 15.1	75.0403	-144.5556	-24.4 25.1			
226.183260							75.0388	-144.5497	-24.9 23.2			
226.184204							75.0360	-144.5405	-25.3 19.9			
226.192168												
226.206711	74.1783	-141.6589	-12.7 10.9									
226.206955				74.8823	-137.5137	-2.6 18.9	75.0325	-144.5312	-25.3 15.3			
226.207001				74.8820	-137.5031	-1.5 22.6	75.0262	-144.5200	-23.4 8.4			
226.224152	74.1767	-141.6532	-11.4 12.7				75.0248	-144.5181	-22.5 7.4			
226.224274				74.8814	-137.4787	-4.7 27.9	75.0221	-144.5150	-20.6 6.2			
226.224340							75.0195	-144.5118	-18.0 6.0			
226.225683							75.0157	-144.5065	-13.2 4.9			
226.257019												
226.264938				74.8749	-137.4182	-16.5 25.0						
226.265152	74.1723	-141.6521	-9.9 12.6	74.8718	-137.4119	-17.3 23.3	75.0149	-144.5034	-11.9 4.2			
226.278702							75.0134	-144.5034	-9.2 2.7			
226.280838												
226.298186	74.1708	-141.6255	-9.9 11.0				75.0123	-144.5024	-6.7 1.7			
226.298523												
226.329224												
226.329605												
226.338028												
226.338074												
226.338272												
226.356812												
226.373291	74.1654	-141.6064	-7.9 8.6									
226.373352												
226.373566												
226.401962												
226.402054	74.1637	-141.5992	-7.6 9.1									
226.402054												

DAY	LAT	CAMP CARIBU LONG	NIV	EIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP HIG BEAR LONG	NIV	EIV
226.402267	74.1631	-141.5968	-7.8	9.1	74.8613	-137.3695	-19.0	16.5	75.0113	-144.5009	-2.8	2.6	74.6952	-140.3376	-13.5	8.1
226.411667					74.8610	-137.3625	-19.3	14.9	75.0111	-144.5000	-1.7	3.6				
226.411800									75.0110	-144.4979	0.0	5.6				
226.427048									75.0112	-144.4933	1.9	8.8				
226.427216																
226.448807	74.1608	-141.5874	-8.1	8.7												
226.448829					74.8577	-137.3535	-19.1	13.0								
226.449081					74.8539	-137.3441	-18.1	11.2								
226.475052	74.1591	-141.5813	-8.3	7.9												
226.475082																
226.475266	74.1584	-141.5749	-8.2	7.5												
226.486008																
226.486115					74.8524	-137.3406	-17.7	10.4								
226.486221					74.8506	-137.3368	-17.0	9.5								
226.499313	74.1575	-141.5761	-8.0	7.1												
226.499588																
226.506073					74.8474	-137.3301	-14.7	8.5								
226.524475	74.1561	-141.5712	-8.9	7.0	74.8450	-137.3242	-11.7	8.3								
226.524902																
226.548782					74.8439	-137.3211	-10.1	8.2								
226.548813					74.8432	-137.3187	-8.8	8.0								
226.560944	74.1544	-141.5640	-4.7	6.9	74.8425	-137.3164	-7.4	7.7								
226.561005																
226.561249																
226.571289																
226.571655																
226.581436																
226.600250																
226.600494	74.1532	-141.5567	-3.6	6.5												
226.622849	74.1525	-141.5526	-3.8	6.5												
226.622946																
226.633093					74.8408	-137.3070	-3.5	8.0								
226.636414					74.8405	-137.3037	-2.9	8.7								
226.636795					74.8403	-137.3020	-2.7	9.1								
226.643117																
226.643646																
226.656174					74.8401	-137.2983	-2.3	10.3								
226.656281																
226.675629																
226.675873	74.1508	-141.5419	-4.5	6.5												
226.697739																
226.697769	74.1501	-141.5389	-4.5	6.5												
226.698044																
226.712097																
226.712265	74.1496	-141.5363	-4.4	6.4												
226.712479																
226.712652					74.8394	-137.2764	-0.6	16.2								
226.713054																
226.713368	74.1489	-141.5325	-3.9	6.5												
226.713412																
226.713421																
226.713422																
226.717598					74.8393	-137.2438	-0.6	18.9								
226.804062					74.8389	-137.2270	-3.0	18.5								
226.804276					74.8383	-137.2160	-5.3	18.1								
226.824432																
226.824524	74.1471	-141.5175	-1.1	3.9												
226.824646																
226.824856																
226.838725	74.1469	-141.5154	-0.8	2.5												
226.838907					74.8371	-137.2032	-7.2	17.2								
226.861557	74.1468	-141.5146	-0.5	1.9												
226.861694																
226.861725																

DAY	LAT	CAMP CARLHOD LONG	NIV	EIV	LAT	CAMP BLUE LONG	FOX NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG LONG	MEAN NIV	EIV
226.861722	74.1467	-141.5128	-0.2	0.8	74.8301	-137.1869	-7.9	16.3	74.9881	-144.3211	1.0	-4.2	74.9881	-144.3211	1.0	-4.2
226.8677102	74.1467	-141.5128	-0.4	1.0	74.8353	-137.1847	-8.6	15.1	74.9885	-144.3225	4.2	-3.4	74.9885	-144.3225	4.2	-3.4
226.877314	74.1467	-141.5128	-0.4	1.0	74.8339	-137.1811	-9.4	13.3	74.9897	-144.3253	7.4	-1.2	74.9897	-144.3253	7.4	-1.2
226.880974	74.1467	-141.5128	-0.2	0.8	74.8339	-137.1716	-9.1	11.5	74.9904	-144.3254	8.4	0.1	74.9904	-144.3254	8.4	0.1
226.924057	74.1467	-141.5128	-0.4	1.0	74.8302	-137.1631	-8.6	10.8	74.9914	-144.3250	9.2	1.8	74.9914	-144.3250	9.2	1.8
226.924113	74.1466	-141.5121	-0.8	1.3	74.8279	-137.1051	0.4	5.5	74.9919	-144.3246	9.5	2.6	74.9919	-144.3246	9.5	2.6
226.932577	74.1466	-141.5121	-0.8	1.3	74.8279	-137.1032	-0.1	5.4	74.9930	-144.3231	9.7	4.4	74.9930	-144.3231	9.7	4.4
226.950349	74.1466	-141.5121	-0.8	1.3	74.8279	-137.1032	-0.1	5.4	74.9930	-144.3231	9.7	4.4	74.9930	-144.3231	9.7	4.4
226.950370	74.1466	-141.5121	-0.8	1.3	74.8279	-137.1032	-0.1	5.4	74.9930	-144.3231	9.7	4.4	74.9930	-144.3231	9.7	4.4
226.950370	74.1466	-141.5121	-0.8	1.3	74.8279	-137.1032	-0.1	5.4	74.9930	-144.3231	9.7	4.4	74.9930	-144.3231	9.7	4.4
226.957121	74.1466	-141.5121	-0.8	1.3	74.8279	-137.1032	-0.1	5.4	74.9930	-144.3231	9.7	4.4	74.9930	-144.3231	9.7	4.4
226.971191	74.1466	-141.5121	-0.8	1.3	74.8279	-137.1032	-0.1	5.4	74.9930	-144.3231	9.7	4.4	74.9930	-144.3231	9.7	4.4
227.011093	74.1461	-141.5092	-0.8	1.8	74.8245	-137.1390	-6.4	5.5	74.9972	-144.3092	8.1	11.0	74.9972	-144.3092	8.1	11.0
227.010548	74.1460	-141.5082	0.2	1.7	74.8245	-137.1390	-6.4	5.5	74.9972	-144.3092	8.1	11.0	74.9972	-144.3092	8.1	11.0
227.010548	74.1460	-141.5082	0.2	1.7	74.8245	-137.1390	-6.4	5.5	74.9972	-144.3092	8.1	11.0	74.9972	-144.3092	8.1	11.0
227.010548	74.1460	-141.5082	0.2	1.7	74.8245	-137.1390	-6.4	5.5	74.9972	-144.3092	8.1	11.0	74.9972	-144.3092	8.1	11.0
227.044866	74.1460	-141.5082	0.2	1.7	74.8245	-137.1390	-6.4	5.5	74.9972	-144.3092	8.1	11.0	74.9972	-144.3092	8.1	11.0
227.044866	74.1460	-141.5082	0.2	1.7	74.8245	-137.1390	-6.4	5.5	74.9972	-144.3092	8.1	11.0	74.9972	-144.3092	8.1	11.0
227.072329	74.1460	-141.5082	0.2	1.7	74.8245	-137.1390	-6.4	5.5	74.9972	-144.3092	8.1	11.0	74.9972	-144.3092	8.1	11.0
227.072329	74.1460	-141.5082	0.2	1.7	74.8245	-137.1390	-6.4	5.5	74.9972	-144.3092	8.1	11.0	74.9972	-144.3092	8.1	11.0
227.072329	74.1460	-141.5082	0.2	1.7	74.8245	-137.1390	-6.4	5.5	74.9972	-144.3092	8.1	11.0	74.9972	-144.3092	8.1	11.0
227.085159	74.1460	-141.5082	0.2													

DAY	LAT	CAMP CARIMU LONG	NIV	EIV	LAT	CAMP HIDE LONG	NIV	EIV	LAT	CAMP SNOWHIT LONG	NIV	EIV	LAT	CAMP BIG BEAR LONG	NIV	EIV
227.450119					74.8271	-137.0965	-3.6	0.4								
227.450180					74.8265	-137.0969	-4.1	-1.5								
227.471919					74.8233	-137.1154	0.2	-7.8								
227.584473					74.8234	-137.1184	1.8	-7.8								
227.584534																
227.597580																
227.597748																
227.597961																
227.622360					74.8240	-137.1239	4.4	-7.3								
227.622421																
227.641022																
227.641220					74.8247	-137.1278	5.6	-6.7								
227.641312					74.8256	-137.1312	6.4	-6.1								
227.658997																
227.659180																
227.664785																
227.670029					74.8275	-137.1366	6.8	-3.2								
227.675735					74.8285	-137.1377	6.5	-0.7								
227.696821																
227.716187																
227.734070																
227.734131					74.8294	-137.1374	5.9	2.1								
227.734421					74.8298	-137.1368	5.6	3.3								
227.742142																
227.742218																
227.742371																
227.751221																
227.751450																
227.751465																
227.751602																
227.770676																
227.770752																
227.770813																
227.770889																
227.790421																
227.790466																
227.790619																
227.809479																
227.809921																
227.826553																
227.826721																
227.826813																
227.844101																
227.844236																
227.844254																
227.844292																
227.864212																
227.864946																
227.885162																
227.885269																
227.886733																
227.901245																
227.901474																
227.916901																
227.917145																
227.917263																
227.933462																
227.937424																
227.937469																
227.955981																
227.960203																
227.960220																
227.962921																
227.975386																
227.975384																
227.975384																
227.975494																
227.980782																
227.989960																
227.990085																







DAY	LAT	CAMP CAMPBELL LONG	NIV	EIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SHORRHOOD LONG	NIV	EIV	LAT	CAMP BIG HEAR LONG	NIV	EIV
229.674497					74.7232	-137.1153	-10.2	-7.2					74.6701	-140.3876	-7.8	-12.0
229.674500					74.7211	-137.1195	-8.9	-7.7								
229.703563									75.0033	-144.1743	-0.8	-0.3				
229.722748									75.0032	-144.1741	-0.2	0.6				
229.731491					74.7194	-137.1271	-6.1	-9.7								
229.731842																
229.753906					74.7181	-137.1335	-7.7	-9.3								
229.754089					74.7167	-137.1398	-7.0	-8.3								
229.754242																
229.772296									75.0032	-144.1735	0.2	1.2				
229.777435									75.0032	-144.1722	-0.1	1.7				
229.777481																
229.795486																
229.806915																
229.807053					74.7152	-137.1462	-6.0	-7.2								
229.807144																
229.807327																
229.824147					74.7134	-137.1545	-4.9	-5.9								
229.829300																
229.850525																
229.850677																
229.850815																
229.868896					74.7127	-137.1575	-4.7	-5.3								
229.868895																
229.882124																
229.882553					74.7122	-137.1595	-4.6	-4.9								
229.882721																
229.904007					74.7107	-137.1647	-4.8	-3.8								
229.921447																
229.923630																
229.923691																
229.923813																
229.923864																
229.942947																
229.943039																
229.943085																
229.943222																
229.957520																
229.957611																
229.957611																
229.977737																
229.977814																
229.977951																
230.003128																
230.003235																
230.003250																
230.015656																
230.015819																
230.016052																
230.031794																
230.031794																
230.051025																
230.051254																
230.051300																
230.069611																
230.069672																
230.069717																
230.069845																
230.076279																
230.088766																
230.088959																
230.105560																
230.105621																
230.105759																
230.121886																
230.124084																
230.124237																
230.143356																



DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP BLUE LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP MIG LONG	NIV	EIV	
230.141312					74.6988	-137.180	0	-7.0	-5.0	74.9995	-144.1635	-0.6	-1.1	74.6610	-140.4777	-4.3	-8.2
230.141494					74.6978	-137.1895	-6.2	-4.5									
230.161926					74.6971	-137.1916	-5.3	-4.1									
230.162018					74.6964	-137.1937	-4.5	-3.9									
230.176635																	
230.176757					74.6957	-137.1961	-3.8	-3.8									
230.178434					74.6948	-137.1996	-3.3	-3.5									
230.178444					74.6944	-137.2014	-3.0	-3.1									
230.197793																	
230.197921					74.6938	-137.2032	-2.8	-2.3									
230.211712																	
230.211728					74.6935	-137.2042	-2.6	-1.5									
230.237718					74.6932	-137.2046	-2.5	-0.8									
230.237842					74.6928	-137.2048	-2.5	0.2									
230.251480																	
230.251484																	
230.256314																	
230.256639																	
230.256880																	
230.262785																	
230.262796																	
230.265718																	
230.310335																	
230.310772																	
230.310837																	
230.324219																	
230.324234																	
230.342850																	
230.342926																	
230.343079																	
230.360988																	
230.368210																	
230.369385																	
230.369461																	
230.385239																	
230.385284																	
230.396545																	
230.396683																	
230.396694																	
230.396896																	
230.416856																	
230.416874																	
230.443848																	
230.444016																	
230.444061																	
230.460571																	
230.460846																	
230.469727																	
230.469788																	
230.491104																	
230.491241																	
230.491314																	
230.519119																	
230.519135																	
230.519257																	
230.519424																	
230.532604																	
230.532791																	
230.532898																	
230.532959																	
230.543457																	
230.566204																	
230.566223																	
230.566494																	
230.595016																	
230.604752																	



DAY	IAT	CAMP CARLEIGH LONG	NIV	EIV	IAT	CAMP HEAR LONG	NIV	EIV	IAT	CAMP SNOWBIRD LONG	NIV	EIV	IAT	CAMP BIG HEAR LONG	NIV	EIV
231-109940	74.0962	-142.0510	-0.8-11.0													
231-115784					74.6603	-137.2586	-2.6	-7.0	74.9998	-144.2781	0.9	-9.2	74.6497	-140.6538	-2.7-10.9	
231-119701									74.9999	-144.2808	0.9	-9.1				
231-120026									74.9999	-144.2831	1.0	-8.9				
231-120209					74.6599	-137.2622	-2.4	-5.1	75.0000	-144.2864	1.1	-8.9				
231-128357					74.6595	-137.2649	-2.3	-4.0								
231-140823									75.0002	-144.2919	1.4	-9.0				
231-140991									75.0007	-144.3005	2.4	-8.4				
231-161423	74.0960	-142.0720	-0.4-17.1						75.0009	-144.3023	2.7	-7.9				
231-161697					74.6591	-137.2675	-2.1	-4.1								
231-161769																
231-183853					74.6589	-137.2688	-1.9	-4.4								
231-194362	74.0960	-142.0870	0.4-15.0		74.6587	-137.2713	-1.6	-4.8								
231-194717					74.6584	-137.2742	-1.5	-4.5								
231-201859									75.0026	-144.3129	3.2	-2.0				
231-213654	74.0961	-142.0947	0.9-13.4		74.6582	-137.2770	-1.5	-3.4								
231-213943					74.6580	-137.2779	-1.6	-2.9								
231-234207																
231-234406	74.0963	-142.1019	1.3-12.2													
231-258392	74.0965	-142.1100	1.3-11.8													
231-258606																
231-268494																
231-268677																
231-286469	74.0968	-142.1194	1.5-12.0													
231-307388	74.0971	-142.1264	2.0-11.8													
231-307419																
231-307602																
231-313694					74.6571	-137.2827	-1.6	-3.1								
231-314195																
231-314201																
231-320586	74.0980	-142.1402	3.3-10.8													
231-350693																
231-350815																
231-350810					74.6570	-137.2836	-1.6	-3.6								
231-358994	74.0982	-142.1427	3.4-10.5		74.6569	-137.2844	-1.6	-3.9								
231-359009																
231-359192																
231-380890	74.0988	-142.1488	3.7 -9.4													
231-380966					74.6566	-137.2870	-1.9	-3.6								
231-380966																
231-381073																
231-414856																
231-414948	74.0998	-142.1568	3.8 -7.2													
231-425980																
231-426025	74.1002	-142.1590	3.6 -6.6													
231-426117																
231-426146																
231-431854																
231-455048	74.1009	-142.1639	2.9 -5.8													
231-455154																
231-455185																
231-455231																
231-484614	74.1015	-142.1687	1.9 -6.0													
231-486969																
231-487244																
231-501740																
231-501846	74.1017	-142.1717	1.3 -6.4													
231-502151																
231-504846	74.1019	-142.1771	0.5 -7.2													
231-529953																
231-529984																
231-530151																
231-558945					74.6526	-137.3007	-3.4	-7.9								
231-559113					74.6520	-137.3079	-1.8	-6.0								
231-577515																
231-577726																
231-577911																
231-579208	74.1017	-142.1879	-1.9 -8.8		74.6518	-137.3129	-1.1	-9.1								



DAY	CAMP CARBON LONG	LAT	CAMP HIDE LONG	FIX NIV	EIV	CAMP SNOWBIRD LONG	LAT	EIV	CAMP HIG LONG	NIV	EIV
212.094471	74.1169	-142.4133	74.6663	-137.5006	4.8-12.8	75.0225	-144.5067	8.3-16.7	74.6632	-140.9633	0.6-15.9
212.094472						75.0231	-144.5108	9.0-16.3	74.6633	-140.9749	1.0-18.1
212.094473	74.1171	-142.4173	74.6681	-137.5181	4.8-13.8	75.0249	-144.5220	10.0-15.6	74.6635	-140.9863	1.6-19.0
212.094474	74.1176	-142.4270	74.6684	-137.5211	4.7-13.8	75.0264	-144.5314	9.8-15.2			
212.094475			74.6688	-137.5262	4.4-13.6						
212.094476	74.1186	-142.4342	74.6691	-137.5294	4.3-13.5	75.0279	-144.5406	9.2-14.6	74.6638	-140.9974	2.0-18.6
212.094477			74.6698	-137.5385	3.8-13.6	75.0285	-144.5442	9.1-14.3			
212.094478	74.1189	-142.4476	74.6704	-137.5479	3.1-14.7	75.0302	-144.5538	9.4-13.7	74.6649	-141.0253	3.4-17.2
212.094479	74.1196	-142.4564	74.6710	-137.5602	2.3-17.0	75.0319	-144.5628	9.8-13.3	74.6651	-141.0285	3.6-17.2
212.094480									74.6657	-141.0389	4.8-17.3
212.094481	74.1203	-142.4645	74.6714	-137.5723	2.1-18.4	75.0340	-144.5734	10.8-12.7	74.6668	-141.0506	6.7-17.3
212.094482	74.1210	-142.4742	74.6718	-137.5852	2.1-18.8	75.0361	-144.5819	12.0-11.7			
212.094483						75.0387	-144.5912	12.5-11.3	74.6694	-141.0723	7.8-16.4
212.094484			74.6721	-137.5964	2.1-18.6	75.0403	-144.5969	12.1-11.6	74.6710	-141.0856	6.2-14.7
212.094485			74.6726	-137.6120	2.8-18.1	75.0429	-144.6069	10.5-10.9	74.6720	-141.0950	4.3-13.0
212.094486			74.6732	-137.6242	3.8-17.7	75.0447	-144.6139	8.4-9.6			
212.094487						75.0459	-144.6202	6.0-9.3	74.6726	-141.1032	1.9-12.1
212.094488	74.1226	-142.5222	74.6740	-137.6359	4.3-17.5	75.0473	-144.6352	1.8-11.1	74.6726	-141.1212	-0.6-13.2
212.094489	74.1227	-142.5316	74.6759	-137.6605	6.3-16.1	75.0474	-144.6382	1.9-11.6			
212.094490						75.0476	-144.6445	0.7-12.4			
212.094491	74.1228	-142.5521				75.0476	-144.6545	0.1-13.6	74.6723	-141.1428	-1.2-14.6
212.094492			74.6789	-137.6833	7.2-13.9						
212.094493			74.6794	-137.6910	6.2-13.2				74.6721	-141.1511	-1.8-14.2
212.094494	74.1240	-142.5799	74.6805	-137.6958	5.3-12.8						
212.094495	74.1255	-142.5906				75.0479	-144.6882	1.1-15.7	74.6710	-141.1731	-2.8-13.1
212.094496											
212.094497											
212.094498											
212.094499											
212.094500											
212.094501											
212.094502											
212.094503											
212.094504											
212.094505											
212.094506											
212.094507											
212.094508											
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212.094511											
212.094512											
212.094513											
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212.094516											
212.094517											
212.094518											
212.094519											
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212.094530											
212.094531											
212.094532											









DAY	LAT	CAMP CARIBOU LONG	LEV	LAT	CAMP BLUE FOX LONG	LEV	LAT	CAMP SNOWBIRD LONG	LEV	LAT	CAMP HIC NAR LONG	LEV
234.464630												
234.472916												
234.473267												
234.493368												
234.494156												
234.494228												
234.532227												
234.532516												
234.548691												
234.548899												
234.549094												
234.549072												
234.565939												
234.566132												
234.566315												
234.608917												
234.612366												
234.612503												
234.624268												
234.624512												
234.624557												
234.637970												
234.638107												
234.638107												
234.647034												
234.647141												
234.647217												
234.647415												
234.687363												
234.687687												
234.689225												
234.689507												
234.710368												
234.710368												
234.710503												
234.712287												
234.722960												
234.722960												
234.727202												
234.759232												
234.759232												
234.759232												
234.771723												
234.771723												
234.783213												
234.783213												
234.798014												
234.798214												
234.830612												
234.830612												
234.847134												
234.847134												
234.847134												
234.847134												
234.856517												
234.856517												
234.856517												
234.856735												
234.856735												
234.872910												
234.873104												
234.903381												
234.903381												
234.903381												
234.913406												
234.913406												
234.913406												

DAY	LAT	CAMP CARLEIGH LONG	EIV	LAT	CAMP BLUE FOX LONG	EIV	LAT	CAMP SNOWHIND LONG	EIV	LAT	CAMP BIG BEAR LONG	EIV
234.931712	74.0777	-142.7461	-8.3	7.0	74.6540	-138.2231	-5.0	-2.8	75.0176	-144.8092	-7.9	12.8
234.920761									75.0170	-144.8055	-7.7	12.6
234.930588									75.0160	-144.7995	-7.5	11.8
234.930664									75.0142	-144.7897	-8.7	10.7
234.930725									75.0134	-144.7861	-9.5	10.8
234.930862												
234.947067												
234.947093												
234.947098												
234.976303												
234.976456												
234.976669												
234.988129												
234.988235												
234.988266												
235.020447												
235.020645												
235.020721												
235.049469												
235.049774												
235.062210												
235.075987												
235.080185												
235.086368												
235.091384												
235.093674												
235.123093												
235.123154												
235.123184												
235.135483												
235.135651												
235.154739												
235.154938												
235.155075												
235.166132												
235.166392												
235.166473												
235.208618												
235.229218												
235.232260												
235.239000												
235.239253												
235.272284												
235.285884												
235.287104												
235.312111												
235.312270												
235.322489												
235.323162												
235.375838												
235.375858												
235.382910												
235.393710												
235.405217												
235.408257												
235.448410												
235.460084												
235.460236												
235.460297												
235.497772												
235.497818												
235.511824												
235.511824												
235.514252												









DAY	LAT	CAMP CARLEIGH LONG	NIV	EIV	LAT	CAMP HUP LONG	FOX NIV	EIV	LAT	CAMP SNOWHIRE LONG	NIV	EIV	LAT	CAMP HIG LONG	NIV	EIV
238.087997																
238.095016																
238.096222																
238.111282																
238.111359																
238.111359																
238.111572																
238.133255																
238.133473																
238.133514																
238.133591																
238.162262																
238.162506																
238.162542																
238.171447																
238.184860																
238.184906																
238.184937																
238.185074																
238.206024																
238.206223																
238.236465																
238.236694																
238.236694																
238.244949																
238.245087																
238.245148																
238.253018																
238.259155																
238.279068																
238.279144																
238.310120																
238.333032																
238.333954																
238.334076																
238.352646																
238.352783																
238.382965																
238.383072																
238.394958																
238.394958																
238.409317																
238.409439																
238.409592																
238.426666																
238.426773																
238.426804																
238.426849																
238.455261																
238.455420																
238.455505																
238.455551																
238.469803																
238.469803																
238.469879																
238.469946																
238.470062																
238.485168																
238.485245																
238.485428																
238.501389																
238.501511																
238.501541																
238.501648																
238.527267																
238.527435																
238.527512																
238.527573																





DAY	LAT	CAMP CARBON LONG	NIV	FIV	LAT	CAMP BLUE LONG	FOX	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	FIV	LAT	CAMP HIG LONG	NIV	EIV
238.916525																	
238.916779																	
238.917139																	
238.917361																	
238.917935																	
238.951965																	
238.952133	74.0839	-142.2624	2.7	15.7													
238.965469	74.0841	-142.2566	1.8	15.3													
238.965500																	
238.965607																	
238.982864																	
238.983002																	
238.983093	74.0843	-142.2490	0.4	15.7													
238.989746																	
238.994339	74.0843	-142.2439	-0.8	16.4													
238.994436																	
239.004669																	
239.004715	74.0842	-142.2391	-1.9	17.0													
239.025192					74.6081	-137.8254	3.7	6.0									
239.025310																	
239.025375																	
239.025467	74.0837	-142.2288	-3.9	18.2													
239.040217																	
239.040329	74.0832	-142.2211	-5.0	18.9													
239.040431																	
239.040619					74.6087	-137.8228	4.9	6.1									
239.056885																	
239.056900					74.6093	-137.8198	5.8	6.4									
239.057053	74.0824	-142.2121	-6.2	19.3													
239.067159					74.6098	-137.8179	6.3	6.7									
239.067322																	
239.067444	74.0819	-142.2065	-7.0	19.5													
239.067490																	
239.071444					74.6104	-137.8158	6.7	7.2									
239.071621	74.0813	-142.2009	-7.9	19.8													
239.071721																	
239.071845																	
239.098205																	
239.098238	74.0799	-142.1892	-9.4	20.6													
239.098373																	
239.115204	74.0786	-142.1792	-10.1	21.4													
239.115250																	
239.115407	74.0774	-142.1700	-10.5	21.9													
239.140167																	
239.140346																	
239.150925	74.0757	-142.1573	-11.4	21.9													
239.150955																	
239.151123																	
239.170914					74.6152	-137.7856	5.2	16.9									
239.171005	74.0738	-142.1451	-12.4	21.8													
239.171117																	
239.189728																	
239.189758	74.0719	-142.1336	-12.9	21.8													
239.203094																	
239.203201	74.0706	-142.1254	-12.9	21.9													
239.211044																	
239.213211	74.0696	-142.1192	-13.0	22.0													
239.243683																	
239.243759					74.6162	-137.7396	-2.9	25.8									
239.243790	74.0664	-142.1002	-13.6	22.6													
239.263641																	
239.263733	74.0643	-142.0873	-14.5	23.5													
239.275497																	
239.275620																	
239.275711	74.0629	-142.0794	-15.2	24.0													
239.286667	74.0615	-142.0720	-16.0	24.3													
239.286713																	
239.299316	74.0599	-142.0634	-16.9	24.2													





DAY	LAT	CAMP CARIBOU LONG NIV	FIV	LAT	CAMP BLUE FOX LONG NIV	FIV	LAT	CAMP SNOWBIRD LONG NIV	FIV	LAT	CAMP BIG HEAR LONG NIV	EIV
240.029266				74.5072	-137.3563-27.9	18.2				74.4476	-140.1566-26.6	16.1
240.029358				74.5040	-137.3489-28.1	16.9				74.4446	-140.1501-26.0	14.7
240.029556				74.4998	-137.3402-27.9	15.0				74.4408	-140.1426-24.7	12.8
240.041884				74.4936	-137.3289-26.2	11.6				74.4355	-140.1331-21.5	9.9
240.062836				74.4914	-137.3256-25.2	10.4				74.4338	-140.1302-20.1	9.2
240.063080				74.4888	-137.3216-23.8	9.4				74.4317	-140.1266-18.2	8.7
240.092346				74.4855	-137.3165-21.5	10.0				74.4293	-140.1218-15.3	9.5
240.092377				74.4809	-137.3065-17.9	13.7				74.4285	-140.1199-14.2	10.1
240.102840				74.4793	-137.3016-17.0	15.4				74.4262	-140.1126-11.0	12.2
240.102936				74.4776	-137.2953-16.4	16.9						
240.103073										74.4251	-140.1074	-9.6 13.4
240.116943										74.4243	-140.1030	-8.8 14.3
240.117020										74.4232	-140.0954	-7.7 15.8
240.117249										74.4227	-140.0914	-7.3 16.7
240.135574										74.4216	-140.0808	-6.4 18.7
240.142685										74.4209	-140.0730	-6.0 19.9
240.142807										74.4203	-140.0654	-5.9 20.9
240.165268										74.4195	-140.0553	-6.2 22.2
240.165390										74.4179	-140.0359	-8.6 24.3
240.165482										74.4156	-140.0147	-11.5 26.0
240.177170										74.4142	-140.0033	-12.7 26.5
240.177216										74.4133	-139.9908	-13.4 26.8
240.190674										74.4111	-139.9816	-15.4 27.2
240.190689										74.4068	-139.9564	-18.9 27.3
240.208450										74.4047	-139.9457	-20.3 27.0
240.216949										74.4001	-139.9255	-23.3 24.4
240.227991										74.3963	-139.9123	-25.0 21.6
240.251984										74.3933	-139.9035	-25.7 19.8
240.264984										74.3908	-139.8965	-26.1 18.6
240.265060										74.3854	-139.8834	-26.5 16.9
240.281509										74.3809	-139.8732	-25.8 15.5
240.281708										74.3780	-139.8669	-24.7 14.1
240.310516												
240.310730												
240.327347												
240.339935												
240.339951												
240.355087												
240.355209												
240.361571												
240.361586												
240.381255												
240.381453												
240.415375												
240.415512												
240.429276												
240.429337												
240.436096												
240.456421												
240.456604												
240.476419												
240.476471												
240.491140												
240.491354												
240.504109												
240.504150												
240.510312												
240.520319												
240.522017												
240.522710												
240.566910												
240.567169												

DAY	LAT	CAMP CAMELHORN LONG	NIV	EIV	LAT	CAMP MEDE LONG	NIV	FIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG LONG	NIV	EIV
240.579468	73.8757	-141.3372	10.8	3.2	74.4027	-136.9367	-1.9	16.5	74.8320	-143.2225	3.5	14.8	74.3564	-139.8256	-0.6	9.1
240.579605	73.8765	-141.3364	11.3	3.0	74.4042	-136.9586	-4.1	11.7	74.8324	-143.2165	4.2	14.7	74.3564	-139.8218	0.5	10.3
240.604660	73.8772	-141.3358	11.8	2.8	74.4038	-136.9537	-3.9	12.5	74.8339	-143.1994	4.9	15.1	74.3565	-139.8170	1.6	11.8
240.604660	73.8772	-141.3358	11.8	2.8	74.4035	-136.9510	-3.8	13.0	74.8359	-143.1635	3.1	15.0	74.3569	-139.8077	2.8	14.6
240.642773	73.8772	-141.3358	11.8	2.8	74.4027	-136.9367	-1.9	16.5	74.8364	-143.1565	4.4	11.7	74.3574	-139.7991	3.1	16.5
240.642773	73.8772	-141.3358	11.8	2.8	74.4025	-136.9156	-0.4	19.8	74.8377	-139.7922	2.9	17.3	74.3577	-139.7922	2.9	17.3
240.642773	73.8772	-141.3358	11.8	2.8	74.4024	-136.9108	-0.6	20.0	74.8379	-139.7887	2.8	17.6	74.3579	-139.7887	2.8	17.6
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3
240.652054	73.8772	-141.3358	11.8	2.8	74.4023	-136.8955	-1.3	21.0	74.8386	-139.7710	2.7	18.3	74.3586	-139.7710	2.7	18.3



DAY	CAMP CARTOON LONG	NIV	EIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SKOWBIRD LONG	NIV	EIV	LAT	CAMP BIG HEAR LONG	NIV	EIV
242.380412															
242.380554															
242.380722															
242.407852															
242.410345															
242.416486															
242.421570															
242.431778															
242.431870															
242.453720															
242.453766															
242.453903															
242.483200															
242.483221															
242.492482															
242.492486															
242.506497															
242.522557															
242.522634															
242.526440															
242.537932															
242.537932															
242.547208															
242.547208															
242.601158															
242.601158															
242.646407															
242.646407															
242.654853															
242.654853															
242.673773															
242.673773															
242.717307															
242.717307															
242.733740															
242.733740															
242.735633															
242.735633															
242.752670															
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242.758608															
242.758608															
242.780446															
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242.785385															
242.785385															
242.796707															
242.796707															
242.851669															
242.851669															
242.855583															
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242.865949															
242.865949															
242.883102															
242.883102															
242.883224															
242.883224															
242.903320															
242.903320															
242.903397															
242.903397															
242.933456															
242.933456															
242.956787															
242.956787															
242.957001															
242.957001															
242.977814															
242.977814															
242.977844															
242.977844															
242.977951															
242.977951															
243.029907															
243.030151															
243.030151															
243.051651															
243.051651															
243.051804															
243.051804															
243.075958															
243.075958															
243.075989															
243.075989															
243.088730															
243.088730															
243.088837															
243.088837															
243.102692															
243.102692															
243.102951															
243.102951															
243.124817															
243.124817															
243.125061															
243.125061															
243.150070															
243.150070															

DAY	LAT	CAMP CARIBOU LONG NIV EIV	LAT	CAMP BLUE FOX LONG NIV EIV	LAT	CAMP SNOWBIRD LONG NIV EIV	LAT	CAMP BIG BEAR LONG NIV EIV
243.152405	73.7098	-141.0659-13.2-9.9	74.2450	-136.5531-19.8 4.8	74.2291	-136.5515-15.4 -1.4	74.1949	-139.4406 -6.1-10.2
243.162292	73.7098	-141.0687-12.1-11.2	74.2430	-136.5516-20.2 3.2	74.2261	-136.5531-12.7 -2.5	74.1941	-139.4467 -3.5 -9.7
243.175354					74.2248	-136.5541-11.3 -2.8	74.1938	-139.4562 1.6 -5.8
243.197693	73.7062	-141.0811 -6.4-13.5			74.2239	-136.5549-10.3 -2.9		
243.224412	73.7054	-141.0908 -1.2-12.7			74.2224	-136.5505 -8.1 -2.5		
243.236511					74.2210	-136.5582 -5.8 -1.6		
243.248444								
243.248677					74.2203	-136.5588 -5.1 -1.0		
243.270020					74.2199	-136.5590 -4.9 -0.5		
243.270187					74.2192	-136.5590 -4.9 0.8		
243.297852	73.7076	-141.1146 3.4 -7.7			74.2181	-136.5574 -5.5 3.6		
243.311142					74.2177	-136.5563 -5.8 4.7		
243.311219					74.2172	-136.5547 -6.1 6.0		
243.311366	73.7078	-141.1167 2.4 -7.2			74.2158	-136.5491 -7.8 8.7		
243.321322					74.2140	-136.5423-10.2 9.7		
243.321791								
243.342667								
243.342758								
243.370605								
243.370712								
243.386581								
243.386719								
243.395859								
243.415266								
243.415710								
243.442602								
243.453036								
243.462166								
243.470490								
243.484927								
243.484941								
243.515015								
243.521677								
243.524185								
243.528373								
243.538559								
243.545792								
243.563461								
243.586746								
243.586914								
243.600082								
243.600281								
243.613678								
243.613861								
243.613953								
243.621490								
243.658451								
243.659042								
243.676041								
243.686690								
243.688705								
243.697220								
243.713745								
243.713842								
243.731705								
243.731842								
243.750305								
243.750412								
243.762772								
243.762802								
243.772522								
243.772634								
243.789372								
243.804901								



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DAY	LAT	CAMP CARIBOU LONG	FIV	LAT	CAMP BLUE FOX LONG	FIV	LAT	CAMP SNOWHIND LONG	FIV	LAT	CAMP BIG BEAR LONG	FIV
244.802429												
244.802505				74.0504	-136.2122-20.0	4.7				74.0657	-139.1315-18.6	3.5
244.802673	73.5910	-140.8056-14.2	-1.2									
244.811371				74.0490	-136.2109-19.6	5.6						
244.825577	73.5881	-140.8064-17.2	-0.6									
244.825607				74.0468	-136.2083-18.7	7.3						
244.825775												
244.863215				74.0391	-136.1953-14.6	5.1						
244.875717				74.0374	-136.1937-13.7	2.3						
244.885605				74.0339	-136.1935-12.4	-1.0						
244.900742												
244.935944				74.0327	-136.1939-12.1	-0.9						
244.936066	73.5750	-140.7928-12.1	7.2	74.0317	-136.1941-11.7	-0.3						
244.936142												
244.948410				74.0303	-136.1937-10.8	2.0						
244.959213												
244.959290	73.5730	-140.7880-10.4	8.3									
244.959477												
244.975250												
244.975281	73.5718	-140.7840 -9.5	10.4									
244.975342												
245.009125												
245.009125	73.5694	-140.7722 -8.9	15.0									
245.021255				74.0267	-136.1870 -9.3	7.1						
245.021423	73.5685	-140.7670 -9.0	16.2									
245.021606												
245.032410												
245.032486	73.5677	-140.7620 -9.1	16.8									
245.032516				74.0248	-136.1817 -8.8	5.9						
245.049026												
245.049088	73.5666	-140.7544 -8.9	16.6									
245.049198												
245.057110				74.0243	-136.1806 -8.6	5.1						
245.05878				74.0226	-136.1776 -7.8	3.5						
245.082541	73.5643	-140.7401 -8.9	15.0									
245.082611												
245.082626												
245.082798												
245.094376	73.5635	-140.7354 -9.6	14.1									
245.094437				74.0219	-136.1764 -7.4	3.4						
245.094482												
245.104965	73.5626	-140.7316-10.9	12.2	74.0213	-136.1754 -7.0	3.5						
245.105113												
245.105225				74.0204	-136.1737 -6.3	3.8						
245.122147												
245.122183	73.5609	-140.7272-14.7	5.8									
245.122310												
245.122311				74.0200	-136.1728 -5.8	3.9						
245.122319												
245.130700	73.5562	-140.7275-18.5	-3.9	74.0189	-136.1699 -5.5	3.8						
245.156908												
245.156930												
245.156936												
245.156976	73.5546	-140.7287-17.4	-4.1									
245.158478				74.0184	-136.1688 -5.8	3.6						
245.168012												
245.168060				74.0180	-136.1678 -6.2	3.4						
245.168198												
245.177699												
245.177811	73.5533	-140.7208-15.9	-3.8									
245.177856												
245.178040				74.0171	-136.1663 -7.2	3.2						
245.194839												
245.195007												
245.195145												
245.204579												







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LAMONT-DOHERTY GEOLOGICAL OBSERVATORY PALISADES N Y F/G 8/12  
UPDATED POSITION AND ICE VELOCITY FOR THE ARCTIC ICE DYNAMICS J--ETC(U)  
FEB 80 A S THORNDIKE, T O MANLEY N00014-76-C-0004  
LD60-CU-2-80-VOL-1 NL

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DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP WIG NEAR LONG	NIV	EIV
251	73.3967	-140.6302	-1.1	12.6	73.8371	-136.2726	-0.7	11.6	74.3404	-142.7827	11.6	22.3	73.9242	-139.1305	1.0	13.1
252																
253																
254																
255																
256																
257																
258																
259																
260																
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262																
263																
264																
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DAY	LAT	CAMP CAMPING LONG NIV EIV	LAT	CAMP BLUE FOX LONG NIV EIV	LAT	CAMP SNOWHIND LONG NIV EIV	LAT	CAMP BIG HEAR LONG NIV EIV
254.586420	73.3792	-139.7186 -4.5 6.5	73.8235	-135.0884 3.8 8.4	74.3320	-141.4603 -1.4 16.2	73.9022	-137.9222 -3.5 9.4
254.586533	73.3788	-139.7186 -4.6 7.0	73.8266	-135.0752 6.5 6.9	74.3333	-141.4377 -2.8 14.1	73.9006	-137.9051 2.2 8.9
254.586646	73.3773	-139.7058 -1.8 8.1	73.8320	-135.0502 7.3 11.3	74.3309	-141.4316 -3.5 13.2	73.9030	-137.8842 5.8 15.0
254.586759	73.3783	-139.6871 4.8 12.9	73.8369	-134.9984 1.2 16.9	74.3294	-141.4104 -1.3 12.3	73.9052	-137.8535 2.1 15.8
254.586872	73.3794	-139.6775 6.5 16.8	73.8369	-134.9920 0.2 15.8	74.3300	-141.3851 1.8 12.3		
254.586985	73.3822	-139.6505 4.8 16.3	73.8349	-135.0304 5.8 14.9				
254.587098			73.8351	-135.0264 5.3 15.8	74.3302	-141.3770 0.8 11.9		
254.587211			73.8356	-135.0229 4.8 16.6	74.3306	-141.3592 -2.1 13.4		
254.587324								
254.587437								
254.587550								
254.587663								
254.587776								
254.587889								
254.588002								
254.588115								
254.588228								
254.588341								
254.588454								
254.588567								
254.588680								
254.588793								
254.588906								
254.589019								
254.589132								
254.589245								
254.589358								
254.589471								
254.589584								
254.589697								
254.589810								
254.589923								
254.590036								
254.590149								
254.590262								
254.590375								
254.590488								
254.590601								
254.590714								
254.590827								
254.590940								
254.591053								
254.591166								
254.591279								
254.591392								
254.591505								
254.591618								
254.591731								
254.591844								
254.591957								
254.592070								
254.592183								
254.592296								
254.592409								
254.592522								
254.592635								
254.592748								
254.592861								
254.592974								
254.593087								
254.593200								
254.593313								
254.593426								
254.593539								
254.593652								
254.593765								
254.593878								
254.593991								
254.594104								
254.594217								
254.594330								
254.594443								
254.594556								
254.594669								
254.594782								
254.594895								
254.595008								
254.595121								
254.595234								
254.595347								
254.595460								
254.595573								
254.595686								
254.595799								
254.595912								
254.596025								
254.596138								
254.596251								
254.596364								
254.596477								
254.596590								
254.596703								
254.596816								
254.596929								
254.597042								
254.597155								
254.597268								
254.597381								
254.597494								
254.597607								
254.597720								
254.597833								
254.597946								
254.598059								
254.598172								
254.598285								
254.598398								
254.598511								
254.598624								
254.598737								
254.598850								
254.598963								
254.599076								
254.599189								
254.599302								
254.599415								
254.599528								
254.599641								
254.599754								
254.599867								
254.600000								



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DAY	LAT	CAMP CAVENISH LONG	NIV	EIV	LAT	CAMP BLUE LONG	FOX NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG BEAK LONG	NIV	EIV
256.00522																
256.001133																
256.001349																
256.009314																
256.041296																
256.041479																
256.058997																
256.0676019																
256.080003																
256.089992																
256.714020																
256.714233																
256.734497																
256.734619																
256.734924																
256.751001																
256.752014																
256.752015																
256.763123																
256.763167																
256.767304																
256.787537																
256.787567																
256.787567																
256.809967																
256.810150																
256.816548																
256.816578																
256.841541																
256.841572																
256.845379																
256.845323																
256.900209																
256.900471																
256.901412																
256.909119																
256.909154																
256.916157																
256.916157																
256.959595																
256.973309																
256.973301																
256.973633																
256.973663																
257.011017																
257.011139																
257.011261																
257.011444																
257.031051																
257.033081																
257.033203																
257.046204																
257.046448																
257.046478																
257.054993																
257.055328																
257.065015																
257.066212																
257.105988																
257.106201																
257.114815																
257.119171																
257.124632																
257.124693																
257.124815																
257.160147																
257.160370																

DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP BIG BEAR LONG	NIV	EIV
257.160400	73.3663	-134.9303	-4.9	13.3	73.8348	-134.5141	-5.0	7.8	73.8834	-137.1662	-1.4	11.2	73.8834	-137.1662	-1.4	11.2
257.160401	73.3663	-134.9303	-4.9	13.3	73.8348	-134.5141	-5.0	7.8	73.8834	-137.1662	-1.4	11.2	73.8834	-137.1662	-1.4	11.2
257.160402	73.3657	-134.9240	-4.7	12.1	73.8341	-134.5097	-4.1	9.5	74.3119	-140.6894	3.1	7.4	74.3119	-140.6894	3.1	7.4
257.160403	73.3657	-134.9240	-4.7	12.1	73.8341	-134.5097	-4.1	9.5	74.3119	-140.6894	3.1	7.4	74.3119	-140.6894	3.1	7.4
257.160404	73.3652	-134.9199	-4.8	11.1	73.8337	-134.5062	-3.2	10.1	74.3123	-140.6865	3.3	8.3	74.3123	-140.6865	3.3	8.3
257.160405	73.3648	-134.9167	-4.9	10.4	73.8335	-134.5030	-2.3	10.1	74.3125	-140.6838	3.5	9.0	74.3125	-140.6838	3.5	9.0
257.160406	73.3636	-134.9081	-4.6	10.8	73.8332	-134.4953	0.0	7.2	74.3133	-140.6746	2.2	12.1	74.3133	-140.6746	2.2	12.1
257.160407	73.3636	-134.9081	-4.6	10.8	73.8333	-134.4924	0.8	5.5	74.3135	-140.6681	0.6	14.0	74.3135	-140.6681	0.6	14.0
257.160408	73.3636	-134.9081	-4.6	10.8	73.8334	-134.4903	1.2	5.4	74.3135	-140.6624	-0.6	15.0	74.3135	-140.6624	-0.6	15.0
257.160409	73.3625	-134.8961	-1.9	11.2	73.8340	-134.4782	1.0	10.5	74.3134	-140.6569	-1.6	15.5	74.3134	-140.6569	-1.6	15.5
257.160410	73.3626	-134.8928	2.0	8.5	73.8341	-134.4697	0.4	13.2	74.3123	-140.6367	-3.7	14.6	74.3123	-140.6367	-3.7	14.6
257.160411	73.3632	-134.8773	3.1	7.9	73.8341	-134.4581	-0.7	14.8	74.3119	-140.6307	-3.9	13.8	74.3119	-140.6307	-3.9	13.8
257.160412	73.3640	-134.8707	3.7	8.7	73.8337	-134.4438	-2.1	15.2	74.3116	-140.6288	-4.1	13.4	74.3116	-140.6288	-4.1	13.4
257.160413	73.3650	-134.8619	4.0	10.8	73.8335	-134.4389	-2.4	15.9	74.3105	-140.6157	-5.5	12.4	74.3105	-140.6157	-5.5	12.4
257.160414	73.3652	-134.8603	4.1	11.2	73.8329	-134.4285	-3.6	14.2	74.3087	-140.6040	-7.5	11.5	74.3087	-140.6040	-7.5	11.5
257.160415	73.3661	-134.8495	3.1	13.5	73.8323	-134.4212	-4.5	13.0	74.3080	-140.6004	-8.0	11.1	74.3080	-140.6004	-8.0	11.1
257.160416	73.3661	-134.8495	3.1	13.5	73.8316	-134.4149	-4.7	12.0	74.3062	-140.5924	-9.7	10.1	74.3062	-140.5924	-9.7	10.1
257.160417	73.3661	-134.8495	3.1	13.5	73.8312	-134.4110	-4.4	11.3	74.3047	-140.5871	-11.1	9.2	74.3047	-140.5871	-11.1	9.2
257.160418	73.3661	-134.8495	3.1	13.5	73.8299	-134.3982	-3.6	10.0	74.3030	-140.5827	-12.3	7.6	74.3030	-140.5827	-12.3	7.6
257.160419	73.3661	-134.8495	3.1	13.5	73.8289	-134.3895	-4.5	10.9	74.3019	-140.5804	-12.9	6.4	74.3019	-140.5804	-12.9	6.4
257.160420	73.3661	-134.8495	3.1	13.5	73.8282	-134.3834	-5.8	11.5	74.2995	-140.5772	-14.1	3.0	74.2995	-140.5772	-14.1	3.0
257.160421	73.3661	-134.8495	3.1	13.5	73.8269	-134.3757	-7.2	10.6	74.2976	-140.5765	-15.0	0.5	74.2976	-140.5765	-15.0	0.5
257.160422	73.3661	-134.8495	3.1	13.5	73.8269	-134.3757	-7.2	10.6	74.2935	-140.5782	-14.4	-3.0	74.2935	-140.5782	-14.4	-3.0
257.160423	73.3661	-134.8495	3.1	13.5	73.8269	-134.3757	-7.2	10.6	74.2913	-140.5801	-12.9	-3.7	74.2913	-140.5801	-12.9	-3.7
257.160424	73.3661	-134.8495	3.1	13.5	73.8269	-134.3757	-7.2	10.6	74.2891	-140.5832	-10.7	-5.6	74.2891	-140.5832	-10.7	-5.6
257.160425	73.3661	-134.8495	3.1	13.5	73.8269	-134.3757	-7.2	10.6	74.2876	-140.5871	-8.6	-8.0	74.2876	-140.5871	-8.6	-8.0
257.160426	73.3661	-134.8495	3.1	13.5	73.8269	-134.3757	-7.2	10.6	74.2876	-140.5871	-8.6	-8.0	74.2876	-140.5871	-8.6	-8.0
257.160427	73.3661	-134.8495	3.1	13.5	73.8269	-134.3757	-7.2	10.6	74.2876	-140.5871	-8.6	-8.0	74.2876	-140.5871	-8.6	-8.0
257.160428	73.3661	-134.8495	3.1	13.5	73.8269	-134.3757	-7.2	10.6	74.2876	-140.5871	-8.6	-8.0	74.2876	-140.5871	-8.6	-8.0
257.160429	73.3661	-134.8495	3.1	13.5	73.8269	-134.3757	-7.2	10.6	74.2876	-140.5871	-8.6	-8.0	74.2876	-140.5871	-8.6	-8.0
257.160430	73.3661	-134.8495	3.1	13.5	73.8269	-134.3757	-7.2	10.6	74.2876	-140.5871	-8.6	-8.0	74.2876	-140.5871	-8.6	-8.0







DAY	LAT	CAMP CARLINJUNG	NIV	EIV	LAT	CAMP BLUE FOX	LUNG	FUX	NIV	EIV	LAT	CAMP SHOWBUND	LUNG	NIV	EIV	LAT	CAMP BIG NEAR	LUNG	NIV	EIV
229.030548	73.3824	-139.0582	7.6	-6.9	73.8151	-134.5993	4.2	-8.4			73.8737	-137.2595								
229.048223																				
229.048645	73.3834	-139.0614	6.9	-6.1																
229.048798																				
229.048828	73.3840	-139.0633	6.6	-5.5																
229.060374																				
229.103546	73.3861	-139.0685	5.5	-3.8																
229.103577																				
229.121307	73.3868	-139.0702	4.9	-3.2																
229.121521																				
229.128387	73.3873	-139.0712	4.3	-2.6																
229.134583																				
229.134825																				
229.136174	73.3881	-139.0741	0.3	-3.6																
229.136319																				
229.144114	73.3880	-139.0763	-2.7	-5.8																
229.164397																				
229.201560					73.8176	-134.6239	0.7	-3.8												
229.201721																				
229.208374	73.3875	-139.0790	-5.4	-8.1																
229.208519																				
229.248372	73.3856	-139.0911	-4.2	-14.2	73.8178	-134.6287	0.6	-4.1												
229.248396																				
229.248418																				
229.267356	73.3853	-139.0988	1.3	-15.8	73.8179	-134.6310	0.7	-4.6												
229.267487																				
229.267548																				
229.267700	73.3858	-139.1057	6.5	-15.8																
229.275726																				
229.283691					73.8184	-134.6381	1.5	-4.6												
229.321075																				
229.321167	73.3907	-139.1228	10.9	-2.2																
229.341331																				
229.341583	73.3914	-139.1228	9.5	1.5																
229.350398																				
229.350420																				
229.350350					</															



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DAY	LAT	CAMP CANNING LONG	NIV	EIV	LAT	CAMP BLUE LONG	FOX NIV	EIV	LAT	CAMP SMITH LONG	NIV	EIV	CAMP MCG LONG	NIV	EIV
260.701019															
260.729340															
260.729462															
260.729736															
260.740073															
260.740199															
260.740260															
260.756950															
260.757111															
260.757172															
260.774650															
260.774719															
260.804779															
260.804962															
260.805115															
260.821899															
260.821941															
260.822052															
260.822144															
260.831160															
260.831421															
260.831451															
260.847809															
260.879700															
260.879913															
260.879944															
260.879974															
260.905121															
260.905121															
260.915222															
260.915405															
260.954071															
260.954193															
260.954285															
260.971141															
260.971283															
260.971405															
260.971241															
260.971331															
260.971394															
260.991530															
261.027710															
261.027771															
261.027863															
261.046265															
261.046295															
261.046448															
261.059570															
261.100647															
261.100861															

DAY	LAT	CAMP CARLUCCI LONG	NIV	EIV	LAT	CAMP BLUE FOX LONG	NIV	EIV	LAT	CAMP SNOWHIRE LONG	NIV	EIV	LAT	CAMP BIG BEAR LONG	NIV	EIV
261.342000	73.4941	-139.1655	0.1	3.5	73.8949	-134.6841	9.2	10.0	74.4091	-140.8805	-7.2	7.2	73.9785	-137.3152	0.4	9.9
261.342001					73.8983	-134.6697	7.6	10.2	74.4080	-140.8763	-5.7	6.1	73.9785	-137.3118	0.0	7.6
261.342002					73.8995	-134.6637	6.8	9.3	74.4063	-140.8686	-2.8	4.9	73.9784	-137.3069	-0.6	2.6
261.342003					73.9003	-134.6597	6.6	8.2	74.4060	-140.8654	-1.9	5.3	73.9783	-137.3058	-0.5	1.3
261.342004					73.9008	-134.6576	6.5	7.5	74.4058	-140.8628	-1.0	5.8	73.9782	-137.3052	-0.1	1.0
261.342005					73.9030	-134.6492	5.6	6.7	74.4057	-140.8614	-0.4	6.2				
261.342006					73.9038	-134.6454	5.0	7.0	74.4062	-140.8448	1.1	9.4	73.9783	-137.3041	0.5	1.5
261.342007					73.9041	-134.6441	4.8	6.8	74.4064	-140.8378	0.4	9.7	73.9784	-137.3030	0.3	2.1
261.342008					73.9050	-134.6397	3.8	4.7	74.4064	-140.8311	-0.3	8.3	73.9784	-137.3026	0.1	2.2
261.342009					73.9056	-134.6374	2.1	1.3	74.4064	-140.8277	-0.6	9.2	73.9784	-137.3018	-0.2	2.3
261.342010					73.9058	-134.6372	1.1	0.2	74.4063	-140.8259	-0.7	9.8	73.9782	-137.2996	-1.5	2.4
261.342011					73.4862	-139.1911	-4.3	-0.3	74.4061	-140.8181	-1.8	11.0	73.9777	-137.2976	-2.5	2.4
261.342012					73.4860	-139.1902	-0.3	5.3	74.4058	-140.8130	-3.0	10.1	73.9774	-137.2967	-2.8	2.3
261.342013					73.4866	-139.1822	3.2	10.5	74.4054	-140.8096	-3.9	8.3	73.9773	-137.2963	-3.0	2.3
261.342014					73.4869	-139.1754	-1.1	5.7	74.4050	-140.8068	-4.8	5.3	73.9786	-137.2949	-3.5	1.5
261.342015					73.4866	-139.1738	-3.4	3.2	74.4035	-140.8059	-6.7	-3.4	73.9761	-137.2944	-3.8	0.5
261.342016					73.4864	-139.1728	-4.7	1.9	74.4027	-140.8040	-7.7	-6.6	73.9757	-137.2944	-4.1	-0.2
261.342017					73.4853	-139.1728	-6.6	-0.3	74.4017	-140.8111	-8.9	-5.8	73.9753	-137.2946	-4.5	-0.8
261.342018					73.4846	-139.1730	-6.8	-0.9	74.4007	-140.8125	-10.1	-0.8	73.9736	-137.2964	-5.1	-1.8
261.342019					73.4837	-139.1735	-6.7	-1.2					73.9729	-137.2972	-5.1	-1.8
261.342020					73.4830	-139.1740	-6.5	-1.4					73.9723	-137.2979	-5.3	-1.9













DAY	LAT	CAMP CARLEHU LONG	EIV	LAT	CAMP BLUE FOX LONG	EIV	LAT	CAMP SNOWBIRD LONG	EIV	LAT	CAMP BIG BEAR LONG	EIV
264.275229	73.4010	-139.1116	7.6 26.5				74.3384	-140.7666	10.2 29.4			
264.278230	73.4029	-139.2819	6.4 34.9	73.7829	-134.8411	3.7 22.6	74.3405	-140.7374	6.2 33.9			
264.310577										73.8835	-137.4072	6.3 26.1
264.310669	73.4038	-139.2846	5.7 35.4				74.3412	-140.7193	4.0 35.4			
264.310750				73.7834	-134.8311	4.3 17.8	74.3414	-140.7117	3.0 35.3			
264.310756										73.8845	-137.3936	6.3 25.8
264.310848	73.4041	-139.2579	5.4 34.6	73.7837	-134.8273	4.6 16.7						
264.310940				73.7841	-134.8225	5.0 15.8						
264.311577												
264.311672												
264.311776												
264.311871	73.4046	-139.2469	5.0 33.4				74.3416	-140.6971	1.1 34.4			
264.311966							74.3413	-140.6656	-3.2 30.3			
264.312060	73.4058	-139.2160	3.2 28.5							73.8859	-137.3669	3.6 25.7
264.312153												
264.312248				73.7858	-134.8055	6.4 18.7	74.3407	-140.6500	-5.5 28.1			
264.312342	73.4061	-139.2019	1.8 27.1				74.3403	-140.6439	-6.5 27.5			
264.312437												
264.312532				73.7867	-134.7947	6.4 22.4				73.8866	-137.3476	2.7 26.8
264.312626										73.8867	-137.3417	2.5 27.5
264.312721				73.7874	-134.7846	5.4 25.4						
264.312816												
264.312910												
264.313005	73.4062	-139.1903	-0.3 27.2				74.3399	-140.6375	-7.6 27.0			
264.313099												
264.313194	73.4054	-139.1606	-4.9 27.4				74.3366	-140.6078	-13.6 24.9			
264.313288												
264.313383				73.7888	-134.7532	3.5 29.2	74.3343	-140.5943	-16.4 23.8			
264.313477												
264.313572												
264.313667	73.4045	-139.1465	-6.5 26.3							73.8873	-137.2917	-0.5 32.7
264.313756				73.7893	-134.7375	3.7 28.9						
264.313851										73.8872	-137.2849	-1.1 33.4
264.313945												
264.314040	73.4041	-139.1411	-7.1 25.5									
264.314135	73.4034	-139.1337	-8.0 24.3				74.3317	-140.5818	-18.6 22.5			
264.314229							74.3261	-140.5600	-19.1 18.1			
264.314324												
264.314419				73.7899	-134.7229	4.2 28.0						
264.314513												
264.314608	73.4006	-139.1112	-11.7 20.5				74.3233	-140.5507	-17.3 15.2			
264.314703												
264.314798				73.7911	-134.6944	3.7 27.5						
264.314892												
264.314987	73.3986	-139.1008	-13.9 18.6				74.3210	-140.5437	-15.2 12.5			
264.315082												
264.315177	73.3966	-139.0925	-15.9 16.8				74.3173	-140.5325	-10.1 8.8			
264.315272												
264.315367				73.7916	-134.6793	2.2 27.9						
264.315462												
264.315557	73.3915	-139.0773	-17.0 12.7				74.3159	-140.5277	-7.5 8.5			
264.315652												
264.315747												
264.315842	73.3890	-139.0710	-15.4 11.0									
264.315937												
264.316032				73.7895	-134.6230	-10.5 24.4						
264.316127												
264.316222												
264.316317	73.3870	-139.0661	-13.3 10.3				74.3155	-140.5260	-6.6 8.6			
264.316412							74.3151	-140.5235	-5.3 8.8			
264.316507												
264.316602												
264.316697				73.7879	-134.6118	-13.4 22.5						
264.316792												
264.316887	73.3858	-139.0550	-7.9 12.2				74.3144	-140.5123	1.8 12.6			
264.316982												
264.317077												
264.317172				73.7834	-134.5898	-15.5 19.7						
264.317267												

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DAY	LAT	CAMP CARINUM LONG	EIV	LAT	CAMP BLUE FOX LONG	EIV	LAT	CAMP SNOWHIRE LONG	EIV	LAT	CAMP BIG BEAR LONG	EIV
265.884130	73.3465	-138.5524	8.9 10.2	73.7178	-134.2098	5.0 -0.3	74.2884	-140.4441	12.5 2.2	73.8190	-136.8247	13.1 -1.7
265.884330	73.3474	-138.5486	5.4 8.1	73.7186	-134.2085	3.3 4.0	74.2820	-140.4420	21.6 -2.1	73.8229	-136.8234	1.5 2.3
265.884530				73.7192	-134.2081	0.8 5.4	74.2774	-140.4465	24.2 -11.2	73.8229	-136.8226	-1.3 2.5
265.884730	73.3463	-138.5266	-9.1 21.3	73.7188	-134.1967	-3.2 3.1						
265.884930				73.7173	-134.1962	-7.6 -1.6				73.8189	-136.8206	-15.2 -1.9
265.885130	73.3427	-138.5034	-17.4 21.2				74.2707	-140.4648	22.2 -22.9			
265.885330	73.3407	-138.4970	-20.8 14.2	73.7164	-134.1970	-9.6 -2.6	74.2685	-140.4738	20.2 -25.3	73.8172	-136.8217	-18.1 -4.1
265.885530				73.7103	-134.2060	-16.3 -9.3	74.2651	-140.4921	-16.0 -28.4			
265.885730	73.3293	-138.4970	-25.7 -11.5				74.2606	-140.5357	-7.5 -31.7			
265.885930	73.3263	-138.5027	-24.3 -15.7	73.7082	-134.2105	-17.3 -11.9				73.8040	-136.8431	-24.0 -16.9
265.886130				73.7053	-134.2187	-17.5 -16.0				73.8025	-136.8469	-23.6 -18.3
265.886330	73.3223	-138.5134	-21.7 -20.5	73.7006	-134.2372	-15.5 -21.2	74.2594	-140.6008	3.5 -28.8			
265.886530	73.3171	-138.5353	-15.3 -25.1	73.6987	-134.2471	-14.0 -22.2						
265.886730				73.6977	-134.2526	-13.2 -22.4	74.2602	-140.6170	7.1 -26.1	73.7875	-136.9308	-3.0 -27.0
265.886930	73.3139	-138.5609	-6.9 -26.2	73.6966	-134.2595	-12.2 -22.6	74.2644	-140.6474	11.6 -13.2	73.7874	-136.9429	1.2 -26.7
265.887130										73.7876	-136.9514	3.5 -26.7
265.887330	73.3138	-138.6037	5.2 -22.7	73.6938	-134.2822	-7.9 -23.1						
265.887530	73.3142	-138.6087	6.4 -21.8	73.6929	-134.2928	-5.9 -23.8	74.2692	-140.6536	3.1 5.3	73.7910	-136.9920	8.3 -19.0
265.887730	73.3167	-138.6289	10.0 -18.5				74.2693	-140.6524	1.6 6.5	73.7919	-136.9990	7.8 -15.1
265.887930				73.6915	-134.3314	-0.3 -23.9						
265.888130	73.3179	-138.6463	10.3 -17.1	73.6915	-134.3410	1.7 -22.4						
265.888330	73.3190	-138.6425	9.9 -15.1				74.2681	-140.6395	-7.2 8.5	73.7943	-137.0114	5.6 -6.0
265.888530	73.3219	-138.6566	6.0 -8.8	73.6920	-134.3523	4.5 -19.0						
265.888730							74.2673	-140.6367	-8.8 7.1	73.7948	-137.0132	4.8 -4.2
265.888930	73.3224	-138.6594	4.3 -7.3	73.6939	-134.3688	6.8 -11.8						
265.889130	73.3221	-138.6612	2.9 -6.3	73.6946	-134.3725	6.2 -9.9	74.2665	-140.6348	-10.1 5.8			
265.889330												
265.889530				73.6951	-134.3751	5.6 -8.4						
265.889730												

DAY	CAMP CARIBOU LAT	CAMP CARIBOU LONG	ELV	CAMP HINE FOX LAT	CAMP HINE FOX LONG	ELV	CAMP SNOWHIND LAT	CAMP SNOWHIND LONG	ELV	CAMP BIG BEAR LAT	CAMP BIG BEAR LONG	ELV
266.419445	73.3229	-138.6629	1.3 -5.3	73.6954	-134.3769	5.1 -7.2	74.2656	-140.6332	11.6 4.2	73.7954	-137.0147	3.4 -1.6
266.421722	73.3224	-138.6675	-4.5 -3.6	73.6965	-134.3819	-1.7 1.2	74.2612	-140.6317	-15.7 -1.4	73.7957	-137.0132	-2.7 3.0
266.423491				73.6966	-134.3822	0.1 -0.2	74.2599	-140.6323	-16.4 -2.5	73.7954	-137.0121	-4.5 4.0
266.424891				73.6966	-134.3822	0.1 -0.2	74.2581	-140.6335	-17.3 -4.1			
266.426013	73.3220	-138.6684	-5.9 -3.7				73.7948	-137.0099	-7.3 6.1			
266.427168	73.3213	-138.6698	-7.9 -3.9	73.6965	-134.3819	-1.7 1.2						
266.428321	73.3207	-138.6707	-9.1 -4.1	73.6963	-134.3815	-2.9 2.0	74.2506	-140.6448	-19.2 -11.5			
266.429434	73.3165	-138.6768	-14.9 -6.7				74.2471	-140.6538	-18.8 -15.2			
266.430544				73.6945	-134.3785	-8.4 2.4	74.2406	-140.6799	-10.9 -10.7			
266.431635				73.6926	-134.3773	-11.3 1.4						
266.432757	73.3136	-138.6817	-17.0 -9.0	73.6872	-134.3776	-14.4 -2.5						
266.433870	73.3065	-138.6882	-16.7 -14.9	73.6846	-134.3801	-14.4 -5.4				73.7747	-137.0043	-15.9 -13.5
266.434982				73.6791	-134.3911	-12.4 -9.4				73.7677	-137.0477	-8.0 -21.0
266.436094	73.2979	-138.7484	-4.2 -21.0	73.6770	-134.3972	-10.6 -9.6				73.7658	-137.0697	-2.7 -16.5
266.437206	73.2976	-138.7753	2.0 -19.2				74.2418	-140.7336	1.4 3.2	73.7657	-137.0794	1.4 -14.7
266.438318				73.6736	-134.4108	-6.6 -11.0				73.7658	-137.0833	3.0 -14.0
266.439430				73.6723	-134.4221	-3.4 -12.9	74.2411	-140.7225	-5.1 11.3	73.7674	-137.0949	5.7 -5.6
266.440542	73.2982	-138.7874	4.0 -17.1	73.6717	-134.4353	-0.8 -9.9	74.2398	-140.7139	-8.7 14.0			
266.441654	73.2986	-138.7916	4.8 -16.1	73.6716	-134.4401	0.2 -4.5	74.2390	-140.7094	-10.2 15.6	73.7685	-137.0587	-4.6 12.5
266.442766										73.7663	-137.0504	-10.4 6.7
266.443878	73.3004	-138.8058	6.4 -10.1									
266.444990				73.6715	-134.4260	-4.2 6.6						
266.446102	73.3015	-138.8106	5.6 -4.5									
266.447214	73.3020	-138.8115	5.0 -1.7	73.6717	-134.4410	0.7 -1.5						
266.448326				73.6722	-134.4371	-0.5 6.0						
266.449438												
266.450550	73.3008	-138.7853	-10.1 14.4									
266.451662												
266.452774	73.2988	-138.7769	-13.9 14.2	73.6699	-134.4183	-7.1 9.5						
266.453886												
266.454998	73.2973	-138.7722	-15.7 13.6	73.6673	-134.4075	-10.8 10.8						
266.456110												
266.457222	73.2921	-138.7601	-18.9 9.4									
266.458334												
266.459446												













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DAY	LOC	CAMP CANTONMENT LONG	LEV	LAT	CAMP BLUE FOX LONG	LEV	CAMP SHORRHEAD LONG	LEV	LAT	CAMP HIG BEAK LONG	LEV	ELEV
272.140393	73.1085	-138.3122	1.4 -2.6				73.9663	-140.2735	-0.7 -1.7			
272.154675	73.1086	-138.3129	1.5 -2.3				73.9662	-140.2742	-0.6 -1.5			
272.164166	73.1090	-138.3146	1.9 -2.1				73.9660	-140.2759	-0.2 -1.6			
272.195355	73.1096	-138.3169	2.8 -2.9				73.9660	-140.2768	0.3 -1.8			
272.214490	73.1099	-138.3177	3.1 -3.2				73.9661	-140.2776	0.8 -1.7			
272.230298	73.1107	-138.3184	3.3 -3.2				73.9662	-140.2780	1.2 -1.6			
272.243636	73.1110	-138.3196	2.9 -2.7				73.9665	-140.2791	1.2 -0.7			
272.243636	73.1115	-138.3199	2.5 -2.1				73.9666	-140.2793	0.7 0.0			
272.243636	73.1116	-138.3199	2.4 -1.6				73.9667	-140.2791	-0.1 0.5			
272.243636	73.1122	-138.3199	2.8 -1.2				73.9665	-140.2784	-0.4 0.6			
272.243636	73.1125	-138.3199	3.0 -1.2				73.9665	-140.2782	-0.2 0.5			
272.243636	73.1131	-138.3199	3.8 -1.9				73.9665	-140.2779	0.5 0.4			
272.243636	73.1133	-138.3199	4.0 -2.3				73.9668	-140.2780	1.2 -0.7	73.4731	-136.4194	1.2 4.4
272.243636	73.1144	-138.3199	4.1 -3.2				73.9669	-140.2782	1.1 -1.1			
272.243636	73.1146	-138.3199	3.9 -3.1				73.9671	-140.2797	1.1 -3.0			
272.243636	73.1149	-138.3199	3.7 -3.0				73.9675	-140.2846	1.4 -5.3			
272.243636	73.1154	-138.3199	1.1 -2.4				73.9677	-140.2869	1.6 -5.0	73.4738	-136.4102	1.1 3.5
272.243636	73.1163	-138.3199	3.1 -2.1				73.9679	-140.2891	1.7 -2.9			
272.243636	73.1167	-138.3199	3.5 -2.6				73.9684	-140.2892	1.5 1.8	73.4744	-136.4176	1.3-15.5
272.243636	73.1194	-138.3199	5.6 -5.2				73.9686	-140.2883	1.4 1.9			
272.243636	73.1202	-138.3199	6.0 -5.5				73.9688	-140.2876	1.2 0.6			
272.243636	73.1221	-138.3199	6.2 -5.0				73.9691	-140.2886	1.2 -1.7	73.4752	-136.4531	1.3-11.0
272.243636	73.1230	-138.3199	6.0 -4.2				73.9693	-140.2895	1.7 -1.6	73.4754	-136.4557	1.0 0.9
272.243636	73.1237	-138.3199	6.0 -3.6							73.4755	-136.4530	0.9 11.7
272.243636	73.1256	-138.3199	6.3 -4.1				73.9696	-140.2901	2.5 -0.8	73.4758	-136.4324	1.1 21.4
272.243636	73.1259	-138.3199	6.4 -4.5				73.9705	-140.2908	3.2 -1.6			
272.243636	73.1265	-138.3199	6.4 -5.3				73.9707	-140.2912	3.1 -2.2			
272.243636	73.1272	-138.3199	6.4 -6.2				73.9709	-140.2921	2.9 -3.5			

DAY	LAT	CAMP CARLSON LONG	NEV	EIV	LAT	CAMP HUE LONG	NEV	EIV	LAT	CAMP SNOWBIRD LONG	NEV	EIV	LAT	CAMP HIG LONG	NEV	EIV
222.924928	73.1293	-138.1900	5.9	-6.8	73.3461	-133.8797	2.1	-5.3	73.9713	-140.2942	2.6	-5.1	73.9713	-140.2942	2.6	-5.1
222.924929									73.9719	-140.3003	1.5	-5.8				
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DAY	LAT	CAMP CARIBOU LONG	EIV	LAT	CAMP BLUE FOX LONG	EIV	LAT	CAMP SNOWBIRD LONG	EIV	LAT	CAMP BIG BEAR LONG	EIV
277.439758	73.4015	-139.8918	10.5 -7.1	73.4789	-134.9736	8.2 -6.5	73.6744	-137.6815	9.3 -6.7	73.6769	-137.6880	9.1 -7.3
277.439800	73.4038	-139.8979	9.6 -8.2	73.4811	-134.9797	7.8 -7.1	73.6777	-137.6903	8.9 -7.5	73.6783	-137.6923	8.7 -7.8
277.442214	73.4046	-139.9004	9.3 -8.4	73.4817	-134.9819	7.5 -7.4	74.2060	-141.6937	10.8 -6.7	73.6797	-137.6970	8.4 -8.5
277.442663	73.4053	-139.9026	9.1 -8.7	73.4823	-134.9839	7.2 -7.8	74.2068	-141.6956	10.5 -6.6	73.6817	-137.7046	8.1 -9.9
277.443816	73.4070	-139.9085	8.9 -9.3	73.4834	-134.9886	6.8 -8.5	74.2118	-141.7106	8.6 -10.9	73.6826	-137.7088	8.0 -10.6
277.444060	73.4088	-139.9155	8.5 -10.1	73.4851	-134.9957	7.2 -8.9	74.2124	-141.7152	8.1 -11.8	73.6831	-137.7112	8.0 -11.0
277.444680	73.4098	-139.9196	8.1 -10.5	73.4859	-134.9994	7.8 -9.1	74.2159	-141.7301	8.6 -11.9	73.6845	-137.7180	7.9 -10.9
277.444772	73.4116	-139.9283	7.6 -10.3	73.4864	-135.0014	8.1 -9.2	74.2172	-141.7294	9.4 -12.2	73.6862	-137.7252	8.4 -8.1
277.445337	73.4133	-139.9350	8.1 -7.7	73.4881	-135.0079	8.7 -10.1	74.2194	-141.7247	9.5 -3.5	73.6874	-137.7285	8.9 -5.4
277.445868	73.4144	-139.9382	8.6 -5.5	73.4910	-135.0199	8.8 -10.4	74.2212	-141.7264	8.5 -9.7	73.6896	-137.7321	9.4 -4.6
277.446077	73.4165	-139.9422	8.9 -5.7	73.4931	-135.0281	9.1 -9.5	74.2224	-141.7350	7.8 -20.8	73.6914	-137.7366	9.2 -9.4
277.446409	73.4182	-139.9473	8.5 -10.1	73.4949	-135.0343	9.7 -9.3	74.2242	-141.7560	7.4 -24.8	73.6965	-137.7661	9.1 -14.8
277.446914	73.4195	-139.9537	8.1 -11.5	73.4964	-135.0393	10.3 -9.5	74.2256	-141.7708	7.9 -18.7	73.6983	-137.7749	10.0 -12.3
277.447097	73.4214	-139.9652	8.0 -13.5	73.4990	-135.0473	11.0 -10.2	74.2272	-141.7811	8.8 -12.3	73.7005	-137.7829	10.9 -9.7
277.447425	73.4229	-139.9731	8.5 -11.7	73.4243	-139.9793	9.2 -11.7	74.2291	-141.7884	9.9 -7.8	73.7025	-137.7887	11.0 -8.1
277.447486	73.4266	-139.9892	10.6 -12.2	73.5118	-135.0898	10.4 -8.2	74.2376	-141.7964	10.3 -6.0	73.7044	-137.7932	10.9 -6.8
277.447552	73.4284	-139.9967	10.0 -11.1	73.4299	-140.0021	9.7 -9.3	74.2349	-141.8017	9.7 -6.4	73.7067	-137.7978	10.8 -5.8
277.447617												
277.447673												
277.447737												
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277.447861												
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277.448357												
277.448419												
277.448481												
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277.448605												
277.448667												
277.448729												
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277.448853												
277.448915												





DAY	LAT	CAMP CAMPDND	LONG	NIV	EIV	LAT	CAMP HIDE	LONG	FOX	NIV	EIV	LAT	CAMP SNOWHSD	LONG	NIV	EIV	LAT	CAMP BIG	LONG	NIV	EIV
218-356232						73.5314	-135.1791		4.2	-6.3		73.7257	-137.6499		4.1	-5.5					
218-356154	73.4476	-140.0961		1.2	-7.7							74.2511	-141.4752		3.6	-4.3					
218-356506	73.4481	-140.0997		1.6	-7.2							74.2517	-141.4772		4.1	-3.7					
218-374268						73.5321	-135.1824		4.5	-6.6		74.2520	-141.4783		4.3	-3.4					
218-374294																					
218-374512	73.4484	-140.1017		1.8	-6.7																
218-385071	73.4489	-140.1049		1.7	-6.1																
218-385284						73.5331	-135.1875		4.2	-6.4											
218-401120	73.4495	-140.1069		2.7	-5.9	73.5338	-135.1915		3.0	-5.6											
218-401342																					
218-421401	73.4499	-140.1123		1.7	-5.9																
218-421424																					
218-421497	73.4500	-140.1140		1.3	-5.9																
218-421535	73.4502	-140.1169		0.6	-5.9																
218-421560																					
218-421590	73.4503	-140.1202		0.6	-5.6																
218-421637																					
218-421660	73.4504	-140.1239		0.3	-5.0																
218-421692																					
218-421715																					
218-421737	73.4504	-140.1251		0.2	-4.7																
218-421778																					
218-421805	73.4504	-140.1296		-0.2	-4.5																
218-421824																					
218-421847	73.4503	-140.1335		-0.6	-5.4																
218-421871																					
218-421893	73.4501	-140.1379		-0.9	-6.0																
218-421920																					
218-421948	73.4500	-140.1403		-1.0	-5.8																
218-421972																					
218-421991	73.4498	-140.1447		-1.0	-4.0																
218-422012																					
218-422044	73.4496	-140.1470		-1.2	-3.1																
218-422075																					
218-422102	73.4494	-140.1476		-1.3	-1.6																
218-422133																					
218-422153	73.4491	-140.1497		-1.1	-4.1																
218-422184																					
218-422205	73.4489	-140.1547		-0.4	-8.2																
218-422236																					
218-422254	73.4489	-140.1574		0.0	-4.4																
218-422280																					



DAY	LAT	CAMP CARIHUI LONG	NIV	EIV	LAT	CAMP BLUE LONG	FOX	NIV	EIV	LAT	CAMP SNOWBIRD LONG	NIV	EIV	LAT	CAMP HIG LONG	MEV	EIV
279.340027	73.4473	-140.2387	-1.3	-7.1	73.5430	-135.3391	1.2	-5.2	73.7302	-136.0408	0.6	-6.3	73.7303	-136.0435	1.2	-5.8	
279.350116	73.4472	-140.2417	-0.6	-6.4	73.5431	-135.3206	1.5	-5.0	74.2499	-142.0236	-1.2	-9.0	73.7305	-136.0459	1.9	-5.5	
279.350139					73.5433	-135.3227	2.2	-4.8	74.2490	-142.0334	0.5	-6.5	73.7311	-136.0507	2.5	-5.2	
279.350891					73.5437	-135.3247	3.0	-4.7	74.2499	-142.0354	0.5	-6.8	73.7313	-136.0522	2.3	-5.3	
279.367004					73.5446	-135.3289	3.5	-4.7	74.2499	-142.0354	0.5	-6.8	73.7315	-136.0544	1.8	-5.3	
279.367035					73.5448	-135.3303	3.2	-4.7	74.2499	-142.0354	0.5	-6.8	73.7317	-136.0563	1.2	-5.2	
279.367056					73.5454	-135.3336	1.9	-3.8	74.2499	-142.0354	0.5	-6.8	73.7319	-136.0612	0.4	-4.5	
279.382538					73.5458	-135.3367	1.1	-2.6	74.2495	-142.0513	-1.9	-7.1	73.7319	-136.0624	0.4	-4.2	
279.382620					73.5459	-135.3374	1.2	-2.6	74.2495	-142.0513	-1.9	-7.1	73.7320	-136.0642	0.5	-3.7	
279.382690					73.5460	-135.3385	1.6	-2.7	74.2495	-142.0513	-1.9	-7.1	73.7320	-136.0651	0.7	-3.4	
279.382697					73.5462	-135.3392	1.9	-2.8	74.2495	-142.0513	-1.9	-7.1	73.7323	-136.0677	1.0	-1.1	
279.415344					73.5469	-135.3427	2.4	-3.6	74.2495	-142.0513	-1.9	-7.1					
279.415528					73.5471	-135.3436	2.4	-3.8	74.2495	-142.0513	-1.9	-7.1					
279.426117					73.5474	-135.3453	2.3	-4.1	74.2495	-142.0513	-1.9	-7.1					
279.426131					73.5482	-135.3514	2.0	-4.6	74.2495	-142.0513	-1.9	-7.1					
279.426192					73.5486	-135.3545	1.8	-4.7	74.2495	-142.0513	-1.9	-7.1					
279.426483					73.5505	-135.3728	2.7	-6.9	74.2495	-142.0513	-1.9	-7.1					
279.441681					73.5511	-135.3781	3.5	-7.6	74.2495	-142.0513	-1.9	-7.1					
279.454376					73.5527	-135.3876	4.7	-6.7	74.2495	-142.0513	-1.9	-7.1					
279.454529					73.5554	-135.3980	4.4	-4.7	74.2495	-142.0513	-1.9	-7.1					
279.454620					73.5562	-135.4014	3.6	-4.8	74.2495	-142.0513	-1.9	-7.1					
279.454723					73.5572	-135.4068	1.6	-3.5	74.2495	-142.0513	-1.9	-7.1					
279.454773																	
279.454817																	
279.454860																	
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DAY	CAMP CAMERON			CAMP BLUE FOX			CAMP SHOWNBIRD			CAMP HIG BEAR		
	LAT	LONG	NIV	FIV	LAT	LONG	NIV	FIV	LAT	LONG	NIV	FIV
280.010712												
280.036591	73.4454	-140.2883	-1.2	3.6	73.5574	-135.4088	0.4	-2.2	74.2424	-142.1404	1.1	-1.5
280.036865												
280.036907	73.4454	-140.2876	-1.4	3.9	73.5573	-135.4118	-0.6	-3.6	74.2426	-142.1416	0.9	-1.6
280.044128												
280.044202	73.4449	-140.2823	-1.7	6.1	73.5573	-135.4125	-0.6	-4.3	74.2429	-142.1428	1.1	0.3
280.044662					73.5572	-135.4151	-0.7	-5.3				
280.044679												
280.044774												
280.109114	73.4445	-140.2775	-1.6	7.5	73.5571	-135.4164	-0.7	-5.3	74.2431	-142.1420	0.9	1.7
280.109558												
280.109722	73.4444	-140.2756	-1.5	7.9								
280.114347												
280.114439	73.4441	-140.2671	-0.7	7.8								
280.114490												
280.114648	73.4440	-140.2626	0.1	4.9								
280.114781												
280.114925	73.4440	-140.2615	0.7	3.4								
280.230927												
280.231146	73.4450	-140.2589	2.4	3.3	73.5537	-135.4297	-6.9	-0.1	74.2435	-142.1542	-2.3	-2.9
280.231246												
280.231446												
280.231450	73.4457	-140.2520	0.7	4.9	73.5513	-135.4287	-7.0	1.7	74.2437	-142.1539	-1.2	1.3
280.305542					73.5508	-135.4282	-6.1	2.0				
280.305610												
280.305614												
280.305617	73.4456	-140.2496	-1.2	2.2	73.5483	-135.4250	-5.3	0.8	74.2421	-142.1642	-4.8	-8.3
280.305670												
280.305672	73.4456	-140.2492	-1.6	1.6	73.5470	-135.4250	-6.9	-0.8	74.2416	-142.1666	-5.1	-7.4
280.305675	73.4444	-140.2492	-5.7	-1.0					74.2411	-142.1694	-5.4	-6.3
280.305678									74.2389	-142.1760	-5.6	-3.5
280.305679												
280.305681												
280.305683	73.4430	-140.2500	-8.2	-1.3	73.5439	-135.4269	-9.3	-1.6	74.2384	-142.1770	-5.5	-3.3
280.305684												
280.305685	73.4390	-140.2516	-11.7	-1.1	73.5431	-135.4273	-9.6	-1.4	74.2380	-142.1780	-5.3	-3.1
280.305686									74.2356	-142.1813	-5.9	-0.9
280.305687	73.4380	-140.2519	-12.1	-1.0	73.5424	-135.4277	-9.9	-1.2	74.2346	-142.1815	-6.6	0.2
280.305688	73.4370	-140.2522	-12.5	-0.9								
280.305689					73.5377	-135.4286	-11.7	0.0	74.2316	-142.1810	-7.1	-1.0
280.305690												
280.305691	73.4314	-140.2530	-13.0	0.0	73.5354	-135.4284	-12.4	0.5	74.2312	-142.1813	-7.0	-1.8
280.305692												
280.305693	73.4290	-140.2528	-12.3	0.5	73.5302	-135.4287	-13.9	-1.9	74.2307	-142.1819	-6.9	-2.7
280.305694					73.5294	-135.4292	-14.2	-2.7	74.2276	-142.1867	-6.7	-0.5
280.305695	73.4244	-140.2533	-11.4	-2.5								
280.305696												
280.305697	73.4237	-140.2539	-11.5	-3.5	73.5283	-135.4300	-14.6	-3.7				
280.305698												
280.305699	73.4228	-140.2550	-11.5	-4.9								
280.305700												
280.305701	73.4177	-140.2643	-10.7	-3.7	73.5214	-135.4356	-15.6	-0.2	74.2268	-142.1863	-6.7	2.3
280.305702					73.5196	-135.4350	-15.4	3.0	74.2261	-142.1855	-6.7	1.8
280.305703												
280.305704	73.4158	-140.2651	-9.6	1.4	73.5184	-135.4340	-15.3	4.8	74.2238	-142.1779	-6.6	4.3
280.305705												
280.305706												

DAY	LAT	CAMP CARIBOU LONG	EIV	LAT	CAMP BLUE FOX LONG	EIV	LAT	CAMP SMOUWIND LONG	EIV	LAT	CAMP BIG BEAR LONG	EIV
280.75629	73.4120	-140.2589	-8.7	73.5126	-135.4256	-14.8	74.2230	-142.1766	-6.5	74.2230	-142.1766	-6.5
280.76226	73.4113	-140.2580	-8.9	73.5109	-135.4242	-14.9	74.2225	-142.1763	-6.4	74.2225	-142.1763	-6.4
280.77252							74.2201	-142.1799	-6.2	74.2201	-142.1799	-6.2
280.77264	73.4107	-140.2575	-9.0	73.5036	-135.4247	-15.2	74.2194	-142.1811	-6.1	74.2194	-142.1811	-6.1
280.78211	73.4072	-140.2593	-8.6	73.5021	-135.4247	-15.1	74.2189	-142.1815	-6.0	74.2189	-142.1815	-6.0
280.78319	73.4062	-140.2601	-8.2	73.5011	-135.4245	-14.9	74.2168	-142.1814	-5.2	74.2168	-142.1814	-5.2
280.78337							74.2161	-142.1808	-4.8	74.2161	-142.1808	-4.8
280.78492	73.4056	-140.2604	-7.8	73.4958	-135.4220	-13.1	74.2143	-142.1787	-3.5	74.2143	-142.1787	-3.5
280.78517												
280.78557	73.4027	-140.2603	-6.6	73.4940	-135.4209	-12.2						
280.79420	73.4020	-140.2603	-6.5	73.4892	-135.4180	-10.8						
280.79216	73.3993	-140.2616	-6.0									
280.79259												
280.79734												
280.79736												
281.049805	73.3964	-140.2644	-4.1	73.4833	-135.4165	-9.4	74.2125	-142.1816	-2.6	74.2125	-142.1816	-2.6
281.05049				73.4829	-135.4166	-9.2	74.2122	-142.1828	-2.6	74.2122	-142.1828	-2.6
281.05232												
281.05254	73.3957	-140.2648	-3.3	73.4784	-135.4170	-8.6	74.2111	-142.1861	-2.7	74.2111	-142.1861	-2.7
281.07128							74.2106	-142.1860	-2.8	74.2106	-142.1860	-2.8
281.07181	73.3947	-140.2652	-2.4									
281.07306	73.3945	-140.2651	-2.4	73.4767	-135.4162	-8.9						
281.07332				73.4735	-135.4130	-6.7						
281.07352	73.3942	-140.2648	-2.5									
281.07353												
281.07354	73.3932	-140.2631	-2.2									
281.07355	73.3931	-140.2631	-2.1									
281.07356	73.3929	-140.2632	-1.9									
281.07357	73.3922	-140.2649	-1.8									
281.07358												
281.07359	73.3920	-140.2650	-1.9									
281.07360												
281.07361	73.3909	-140.2628	-2.6									
281.07362												
281.07363	73.3907	-140.2622	-2.8									
281.07364												
281.07365	73.3904	-140.2616	-3.1									
281.07366	73.3890	-140.2594	-4.1									
281.07367												
281.07368	73.3886	-140.2591	-4.4									
281.07369	73.3882	-140.2589	-4.6									
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DAY	LAT	CAMP CAMEHUU LONG	NIV	EIV	LAT	CAMP ROLF LONG	FOX	NIV	EIV	LAT	CAMP SNOWHIND LONG	NIV	EIV	LAT	CAMP BIG HEAD LONG	NIV	EIV
281.73557																	
281.74040																	
281.74562																	
281.75077																	
281.75534																	
281.76030																	
281.76533																	
281.77036																	
281.77532																	
281.78027																	
281.78523																	
281.79019																	
281.79515																	
281.80011																	
281.80507																	
281.81003																	
281.81500																	
281.82000																	
281.82500																	
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281.96000																	

DAY	CAMP CARIBOU		CAMP BLUE FOX		CAMP SNOWHORN		CAMP HIG BEAR	
	LAT	LONG	LAT	LONG	LAT	LONG	LAT	LONG
	FIV	NIV	FIV	NIV	FIV	NIV	FIV	NIV
284.330231	73.2993	-140.2156	-6.3	-1.1	73.2978	-135.4990	-6.6	-2.8
284.330505	73.2993	-140.2156	-6.3	-1.1	73.2958	-135.4021	-6.6	-3.2
284.330749	73.2973	-140.2168	-6.0	-1.1	74.1081	-142.1419	-2.3	2.9
284.330983	73.2973	-140.2168	-6.0	-1.1	74.1077	-142.1401	-2.2	2.6
284.331227	73.2962	-140.2173	-5.0	-0.1	74.1075	-142.1391	-2.0	2.9
284.331471	73.2958	-140.2173	-4.4	0.5	74.1070	-142.1361	-1.9	3.1
284.331715	73.2948	-140.2162	-3.5	1.4	74.1066	-142.1335	-1.9	3.7
284.331959	73.2940	-140.2152	-3.6	1.3	74.1064	-142.1323	-1.8	4.2
284.332203	73.2937	-140.2148	-3.6	1.4	74.1060	-142.1277	-1.1	5.4
284.332447	73.2928	-140.2134	-3.4	1.7	74.1059	-142.1230	-0.1	4.8
284.332691	73.2920	-140.2121	-2.5	1.1	74.1059	-142.1210	0.3	4.0
284.332935	73.2919	-140.2119	-2.2	0.6	74.1060	-142.1194	1.0	1.5
284.333179	73.2917	-140.2118	-1.9	0.2	74.1066	-142.1176	1.8	2.8
284.333423	73.2915	-140.2121	-1.3	-1.1	74.1069	-142.1148	2.5	6.4
284.333667	73.2912	-140.2137	-0.5	-1.9	74.1083	-142.1027	6.2	13.1
284.333911	73.2912	-140.2144	-0.2	-1.2	74.1088	-142.0987	7.6	14.0
284.334155	73.2910	-140.2146	0.0	0.9	74.1102	-142.0905	9.7	14.7
284.334399	73.2911	-140.2089	-0.2	6.0	74.1132	-142.0751	10.4	15.8
284.334643	73.2910	-140.2057	-0.3	6.0	74.1145	-142.0669	9.3	17.4
284.334887	73.2913	-140.1924	1.0	5.4	74.1178	-142.0360	6.0	22.2
284.335131	73.2914	-140.1892	0.9	7.2	74.1181	-142.0323	5.7	22.7
284.335375	73.2916	-140.1846	0.9	9.1	74.1186	-142.0242	5.7	23.5
284.335619	73.2921	-140.1696	1.8	12.0	74.1195	-142.0098	5.2	24.7
284.335863	73.2924	-140.1620	1.9	12.6	74.1208	-141.9849	3.7	25.8
284.336107	73.2924	-140.1620	1.9	12.6	74.1211	-141.9726	1.8	26.0
284.336351	73.2924	-140.1620	1.9	12.6	74.1213	-141.9558	0.4	25.7

DAY	LAT	CAMP CARIBOU LONG	NIV	EIV	LAT	CAMP BLUE LONG	NIV	EIV	LAT	CAMP SNOWHIRE LONG	NIV	EIV	LAT	CAMP HIG LONG	NIV	EIV
284.989431	73.2928	-140.1505	0.3	14.0												
285.006042					73.3739	-135.3748	-2.1	10.1								
285.006148	73.2927	-140.1440	-1.0	14.9												
285.011749	73.2924	-140.1135	-1.9	16.0												
285.031942					73.3735	-135.3669	-1.9	11.9								
285.062073					73.3730	-135.3574	-2.3	11.4								
285.078766					73.3727	-135.3525	-2.7	10.6								
285.078940	73.2917	-140.1135	-1.6	14.6												
285.079112																
285.105804	73.2914	-140.1060	-1.0	11.9												
285.105910					73.3721	-135.3447	-2.4	10.9								
285.115713																
285.115713	73.2914	-140.0937	0.5	8.6												
285.115713	73.2914	-140.0919	0.8	8.1												
285.115713	73.2917	-140.0862	1.6	8.2												
285.115713					73.3714	-135.3118	0.2	10.6								
285.115713																
285.115713	73.2923	-140.0759	2.5	10.7												
285.115713					73.3713	-135.3002	-1.3	10.6								
285.115713	73.2930	-140.0662	2.8	11.3												
285.115713	73.2937	-140.0569	3.0	10.3												
285.115713					73.3700	-135.2904	-2.5	11.7								
285.115713	73.2940	-140.0538	3.3	9.7												
285.115713					73.3706	-135.2867	-2.3	11.7								
285.115713	73.2941	-140.0467	3.4	9.0												
285.115713																
285.115713	73.2959	-140.0349	2.8	10.1												
285.115713	73.2964	-140.0279	2.2	10.8												
285.115713																
285.115713	73.2969	-140.0173	1.4	10.4												
285.115713																
285.115713	73.2970	-140.0136	1.1	9.9												
285.115713	73.2971	-140.0082	0.5	9.2												
285.115713																
285.115713	73.2971	-139.9984	-0.2	8.1												
285.115713	73.2971	-139.9921	0.2	7.6												
285.115713																
285.115713	73.2973	-139.9839	0.9	6.9												
285.115713	73.2974	-139.9817	1.0	6.7												
285.115713	73.2975	-139.9786	1.0	6.6												
285.115713																
285.115713					73.3712	-135.1856	0.2	9.3								
285.115713	73.2981	-139.9693	1.9	5.2												
285.115713	73.2984	-139.9672	2.3	4.0												
285.115713					73.3714	-135.1680	1.1	7.2								
285.115713	73.2998	-139.9644	1.7	-0.2												
285.115713	73.3019	-139.9671	4.8	-1.9												
285.115713					73.3716	-135.1637	2.2	6.1								
285.115713																
285.115713	73.3026	-139.9678	5.2	-1.7												
285.115713	73.3030	-139.9689	5.5	-1.1												
285.115713																

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DAY	LAT	CAMP CARIHOU LONG	NIV	EIV	LAT	CAMP BLUP LONG	NIV	EIV	LAT	CAMP SNOBIRKO LONG	NIV	EIV	LAT	CAMP BIG LONG	NIV	EIV
287.656616	73.2566	-140.2411	-1.1	-7.7	73.2566	-140.2411	-1.1	-7.7	74.0700	-141.8705	-1.7	-7.9	74.0700	-141.8705	-1.7	-7.9
287.656738	73.2566	-140.2412	-0.9	-8.6	73.2566	-140.2412	-0.9	-8.6	74.0698	-141.8749	-1.3	-8.3	74.0698	-141.8749	-1.3	-8.3
287.656860	73.2565	-140.2454	-0.7	-9.5	73.2565	-140.2454	-0.7	-9.5	74.0696	-141.8885	0.7	-8.4	74.0696	-141.8885	0.7	-8.4
287.656982	73.2565	-140.2621	0.4	-11.7	73.2565	-140.2621	0.4	-11.7	74.0697	-141.8906	1.0	-8.8	74.0697	-141.8906	1.0	-8.8
287.657104	73.2565	-140.2656	0.6	-11.6	73.2565	-140.2656	0.6	-11.6	74.0697	-141.8926	1.3	-8.7	74.0697	-141.8926	1.3	-8.7
287.657226	73.2570	-140.2852	1.4	-11.8	73.2570	-140.2852	1.4	-11.8	74.0706	-141.9079	1.5	-10.6	74.0706	-141.9079	1.5	-10.6
287.657348	73.2572	-140.2897	1.7	-12.2	73.2572	-140.2897	1.7	-12.2	74.0707	-141.9108	1.1	-11.3	74.0707	-141.9108	1.1	-11.3
287.657470	73.2572	-140.2897	1.7	-12.2	73.2572	-140.2897	1.7	-12.2	74.0710	-141.9327	1.4	-11.2	74.0710	-141.9327	1.4	-11.2
287.657592	73.2572	-140.2897	1.7	-12.2	73.2572	-140.2897	1.7	-12.2	74.0712	-141.9366	2.0	-10.3	74.0712	-141.9366	2.0	-10.3
287.657714	73.2572	-140.2897	1.7	-12.2	73.2572	-140.2897	1.7	-12.2	74.0727	-141.9503	3.6	-5.6	74.0727	-141.9503	3.6	-5.6
287.657836	73.2600	-140.3152	2.9	-11.5	73.2600	-140.3152	2.9	-11.5	74.0730	-141.9521	3.5	-4.5	74.0730	-141.9521	3.5	-4.5
287.657958	73.2600	-140.3152	2.9	-11.5	73.2600	-140.3152	2.9	-11.5	74.0745	-141.9589	2.8	-5.9	74.0745	-141.9589	2.8	-5.9
287.658080	73.2617	-140.3281	3.5	-10.8	73.2617	-140.3281	3.5	-10.8	74.0748	-141.9616	2.5	-8.1	74.0748	-141.9616	2.5	-8.1
287.658202	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0758	-141.9806	2.1	-13.3	74.0758	-141.9806	2.1	-13.3
287.658324	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0761	-141.9865	2.1	-13.2	74.0761	-141.9865	2.1	-13.2
287.658446	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0772	-142.0056	2.9	-10.1	74.0772	-142.0056	2.9	-10.1
287.658568	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0774	-142.0079	3.2	-9.3	74.0774	-142.0079	3.2	-9.3
287.658690	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0776	-142.0105	3.4	-8.4	74.0776	-142.0105	3.4	-8.4
287.658812	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0794	-142.0221	5.1	-8.6	74.0794	-142.0221	5.1	-8.6
287.658934	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0798	-142.0247	5.5	-9.7	74.0798	-142.0247	5.5	-9.7
287.659056	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0803	-142.0276	5.9	-10.7	74.0803	-142.0276	5.9	-10.7
287.659178	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0827	-142.0450	5.5	-11.0	74.0827	-142.0450	5.5	-11.0
287.659300	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0831	-142.0486	4.8	-9.8	74.0831	-142.0486	4.8	-9.8
287.659422	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0836	-142.0511	4.3	-9.2	74.0836	-142.0511	4.3	-9.2
287.659544	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0850	-142.0651	3.7	-12.3	74.0850	-142.0651	3.7	-12.3
287.659666	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0854	-142.0692	4.0	-14.1	74.0854	-142.0692	4.0	-14.1
287.659788	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0858	-142.0744	4.4	-15.5	74.0858	-142.0744	4.4	-15.5
287.659910	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0876	-142.0973	4.6	-15.3	74.0876	-142.0973	4.6	-15.3
287.660032	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0882	-142.1039	4.3	-14.1	74.0882	-142.1039	4.3	-14.1
287.660154	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0886	-142.1084	4.0	-13.4	74.0886	-142.1084	4.0	-13.4
287.660276	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0899	-142.1250	3.6	-12.1	74.0899	-142.1250	3.6	-12.1
287.660398	73.2619	-140.3301	3.8	-12.7	73.2619	-140.3301	3.8	-12.7	74.0900	-142.1250	3.6	-12.1	74.0900	-142.1250	3.6	-12.1

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER Tech.Rept.No.CU-2-80 Vol.1	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 11/4/75-17/10/75 Updated Position and Ice Velocity for the AIDJEX Manned Camps	5. TYPE OF REPORT & PERIOD COVERED Tech.Rept. 11/4/75-17/10/75	
	6. PERFORMING ORG. REPORT NUMBER	
7. AUTHOR(s) A.S.Thorndike and T. O. Manley	8. CONTRACT OR GRANT NUMBER(s) N00014-76-C-0004	
9. PERFORMING ORGANIZATION NAME AND ADDRESS Lamont-Doherty Geological Observatory of Columbia Univ., Palisades, NY 10964	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS NR 307-359	
11. CONTROLLING OFFICE NAME AND ADDRESS Dept. of Navy, Office of Naval Research Code 481, Arlington, Va. 22217	12. REPORT DATE February 1980	
	13. NUMBER OF PAGES 347	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)	15. SECURITY CLASS. (of this report) Unclassified	
	15a. DECLASSIFICATION DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited Reproduction in whole or in part is permitted for any purpose of the U. S. Government.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)  AIDJEX, Inertial Oscillations, Arctic Ocean, Sea ice drift		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) During 1975 and 1976, measurements of sea ice motion were made as part of the Arctic Ice Dynamics Joint Experiment (AIDJEX). In an earlier report (Thorndike and Cheung, 1977), energy at the in- ertial period was attenuated by approximately 50% due to the choice of a low covariance factor, $Q=100$ , during Kalman filtering. For oceanographic investigations, the data set proved to be un- acceptable particularly in the summer months when there is a sig- nificant amount of energy at the inertial period. This report		

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is the result of the reprocessing of the original position data taken from the four manned camps (Caribou, Blue Fox, Snowbird and Big Bear) with a covariance factor  $Q = 100000$ . The higher  $Q$  allows data of the inertial period and longer to pass through the filter with less than 1 percent attenuation. Because of the large amount of information contained in the data set, it was divided into two parts. This report (Vol. 1) provides position and ice velocity from 11 April 1975 to 17 October 1975. Vol. 2 covers the remainder of the data, 18 October 1975 to 4 May 1976. (Thorndike and Manley, 1980)

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